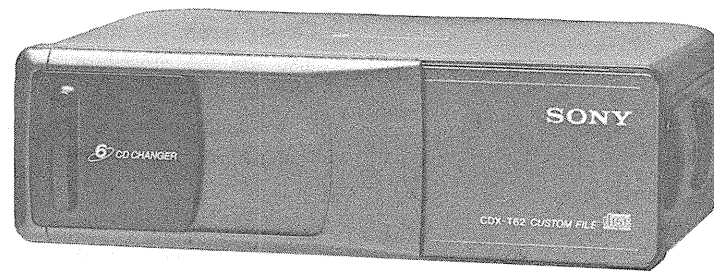
CDX-T62

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



Model Name Using Similar Mechanism	CDX-T60
CD Drive Mechanism Type	MG-150T-134
Optical Pick-Up Name	KSS-520A/J-RP

SPECIFICATIONS

System: Compact disc digital audio system

Laser diode properties
- Material: GaAlAs
- Wavelength: 780nm
- Emission Duration: Continuous
- Laser out-put Power: Less than 44.6 µW*
- * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Frequency response: 5 – 20,000 Hz

Wow and flutter: Below measurable limit

Signal-to-noise ratio: 95 dB

Outputs: BUS control output (8 PIN)
Analog audio output (RCA PIN)

Current drain: 800 mA (CD playback)
800 mA (during loading or ejecting a disc)

Operating temperature: –10 °C to 55 °C (14 °F to 131 °F)

Dimensions: Approx. 225 × 68 × 158 mm (8 7/8 × 2 3/4 × 6 1/4 in.) (w/h/d) not incl. projecting parts and controls

Mass: Approx. 1.5 kg (3 lb. 5 oz.)

Power requirement: 12 V DC car battery (negative ground)

Supplied accessories
- Disc magazine (1)
- Mounting hardware (1 set)
- BUS cable (1)
- RCA pin cord (1)

Design and specifications subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

COMPACT DISC CHANGER

SONY®

SEE ADDITIONAL INFORMATION

SERVICING NOTES

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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ℃ during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μW*
  * This output is the value measured at a distance of 200 mm from the objective lens surfase on the Optical Pick-up Block.

CAUTION

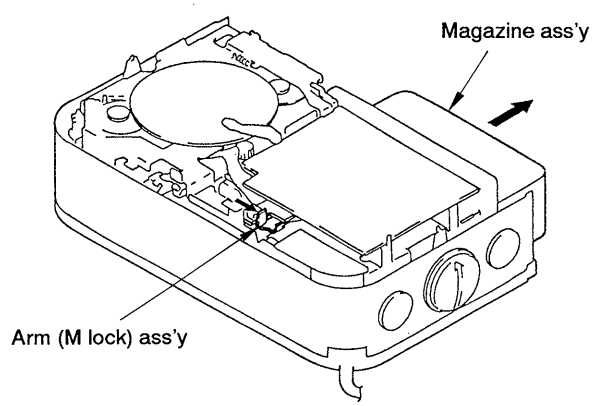
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the CASE (UP) assembly beforehand

1) Press the arm (M lock) assy to arrow direction.
2) Removal the magazine assy.

Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.

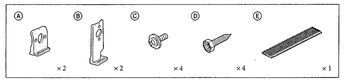


SECTION 1
GENERAL

This section is extracted from instruction manual.

Installation/Installation/Instalación/安裝

Supplied Mounting Hardware/Matériel de montage fourni/Ferreteria de montaje suministrada/安裝用的附屬道具

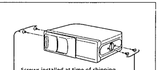


In case you install the changer with parts Ⓓ and Ⓔ, first remove the screws which were installed at the time of shipping, and replace them with screws Ⓓ. Put the removed screws into a small box or a bag in order not to lose them.

Si vous montez le chargeur avec les pièces Ⓓ et Ⓔ, déposez d'abord les vis installées au moment de l'expédition et remplacez-les par les vis Ⓓ. Placez les vis que vous avez déposées dans une petite boîte ou dans un sachet de façon à ne pas les égarer.

Si instala el cambiador con las piezas Ⓓ y Ⓔ, extraiga en primer lugar los tornillos instalados para su empaquetamiento y sustitúyalos por los tornillos Ⓓ. Guarde los tornillos extraídos en una pequeña caja o en una bolsa con el fin de conservarlos.

若 Ⓓ 部件和 Ⓔ 部件安裝轉換器時，請先取除本機出廠時裝妥的螺絲，並改用本機附屬的螺絲 Ⓓ 自行安裝。把取下來的螺絲收在小盒子或袋子裡以免丟失。


Screws installed at time of shipping
Vis installées au moment de l'expédition
Tornillos instalados para su empaquetamiento.
出廠時裝置之鎖螺絲

Precautions

- Choose the mounting location carefully, observing the following:
  — Unit not subject to temperatures exceeding 55 °C (131 °F) (such as in a car parked in direct sunlight).
  — Unit not subject to direct sunlight.
  — Unit not near heat sources (such as heaters).
  — Unit not exposed to rain or moisture.
  — Unit not exposed to excessive dust or dirt.
  — Unit not subject to excessive vibration.
  — The fuel tank should not be damaged by the tapping screws.
  — There should be no wire harnesses or pipes under the place where you are going to install the unit.
  — The spare tire, tools or other equipment in or under the trunk should not be interfered with or damaged by the screws or the unit itself.
- Be sure to use only the supplied mounting hardware for a safe and secure installation.
- Use washers Ⓐ for temporary installation only. Before attaching the screws, clean the surface it is attached to.
- Use only the supplied screws.

Précautions

- Choisir l'emplacement de montage en tenant compte des observations suivantes:
  — Appareil non soumis à des températures dépassant 55 °C (131 °F) (comme dans une voiture garée au soleil).
  — Appareil non soumis au rayonnement direct du soleil.
  — Appareil à l'écart de sources de chaleur (comme des radiateurs).
  — Appareil non exposé à la pluie ou à l'humidité.
  — Appareil non exposé à des poussières ou à des souillures en excès.
  — Appareil non exposé à des vibrations excessives.
  — Vérifier que le réservoir d'essence ne risque pas d'être endommagé par les taraudeuses.
  — Il ne doit pas y avoir de faisceau de fils ou de tuyaux à l'emplacement du montage.
  — Vérifier que l'appareil ou les vis ne risquent pas d'endommager ou de gêner la roue de secours, les outils, ou autre objet dans le coffre.
- Pour garantir la sécurité de l'installation, utiliser uniquement le matériel de montage fourni.
- Utiliser la bonde rodwa Ⓐ uniquement pour un montage provisoire. Avant de fixer la bande velcro, nettoyez le support de montage.
- Utilisez uniquement les vis fournies.

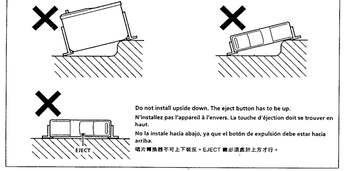
Precauciones

- Elija cuidadosamente el lugar de montaje y tenga en cuenta lo siguiente:
  — No instale la unidad en un lugar con temperaturas superiores a 55 °C (131 °F) (como en un automóvil aparcado bajo la luz solar directa).
  — No exponga la unidad a la luz solar directa.
  — No instale la unidad cerca de fuentes térmicas (como radiadores).
  — No exponga la unidad a la lluvia ni a la humedad.
  — No exponga la unidad al polvo excesivo ni a suciedad.
  — No exponga la unidad a fuertes vibraciones.
  — Procure no dañar el depósito de gasolina con los tornillos de cierre.
  — Procure que no se encuentren arneses de cables ni conductos debajo del lugar donde instale la unidad.
  — Procure que los tornillos o la propia unidad no interfieran ni dañen el neumático de repuesto, las herramientas ni otros equipos que se encuentren dentro o debajo del maletero.
- Para obtener una instalación firme y segura, utilice únicamente la ferretería de montaje suministrada.
- Utilice cintas velcro Ⓐ solamente para realizar una instalación provisional. Antes de adherir la cinta, limpie la superficie a la que va a fijarse.
- Utilice solo los tornillos suministrados.

注意事項

- 請選擇下述注意事項，小心選擇安裝位置。
  — 本機最適合在 131 °F 的地方（如把車在陽光底下的汽車停下）使用本機。
  — 本機避免陽光直射與光電反射。
  — 本機遠離容易熱源的設備（如暖風機等）。
  — 本機務必避免與水接觸與潮濕。
  — 本機務必避免灰塵與大量污染。
  — 本機安裝地點應避免劇烈的振動。
  — 安裝前檢查油箱與其他物品，不可損傷油箱與行李箱裡面或其下方的電線配線，還有其他裝置。
- 為了安裝完一安裝過程中能夠牢靠地固定，請使用隨機附屬的螺絲。
- 橡墊 Ⓐ 只可在暫時的安裝時使用。安裝螺絲前，請先把粘貼處擦拭乾淨。
- 安裝時只可使用隨機的螺絲安裝。

Do not make an inclined installation such as shown below.
N'installez pas l'appareil dans une position inclinée comme illustré ci-dessous.
No realice una instalación inclinada como se muestra a continuación.
不可按照圖所示般把本機傾斜著裝設。

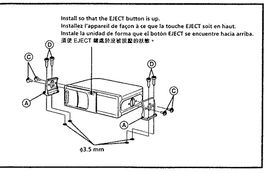

Do not install upside down. The eject button has to be up.
N'installez pas l'appareil à l'envers. La touche d'éjection doit se trouver en haut.
No la instale hacia abajo, ya que el botón de expulsión debe estar hacia arriba.
切勿倒置安裝。EJECT 鍵必須露出方向朝上。
EJECT

How to Install the Unit
Horizontal installation (Be sure to install so that the EJECT button is up.)

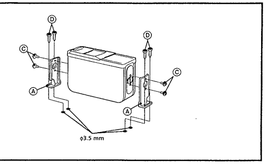
Installation de l'appareil
Installation horizontale (Installez l'appareil de façon à ce que la touche EJECT soit en haut.)

Instalación de la unidad
Instalación horizontal (Instálela de forma que el botón EJECT se encuentre hacia arriba.)

如何安裝
水平裝法（EJECT 鍵必須處於上方）


1
With a coin or something similar, turn the dial so that the arrow is vertical with respect to the ground.
Tournez le disque à l'aide d'une pièce de monnaie ou d'un objet similaire de façon à amener la flèche à la verticale par rapport au sol.
Utilice una moneda o un objeto similar para girar el dial de forma que la flecha se encuentre en posición vertical con respecto al suelo.
以某幣等物旋轉轉盤，使箭頭和地面成垂直方向。
2
Install so that the EJECT button is up.
Installez l'appareil de façon à ce que la touche EJECT soit en haut.
Instale la unidad de forma que el botón EJECT se encuentre hacia arriba.
讓按 EJECT 鍵處於被按壓的狀態。
ø3.5 mm

Vertical installation
Installation verticale
Instalación vertical
垂直裝法

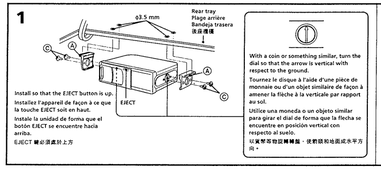

1
With a coin or something similar, turn the dial so that the arrow is vertical with respect to the ground.
Tournez le disque à l'aide d'une pièce de monnaie ou d'un objet similaire de façon à amener la flèche à la verticale par rapport au sol.
Utilice una moneda o un objeto similar para girar el dial de forma que la flecha se encuentre en posición vertical con respecto al suelo.
以某幣等物旋轉轉盤，使箭頭和地面成垂直方向。
2
ø3.5 mm

Suspended installation (Be sure to install so that the EJECT button is up.)
When the unit is installed under the rear tray etc. in the trunk room, be sure to make following provisions are made.
- Choose the mounting location carefully so that the unit can be installed horizontally.
- Make sure that the unit does not hinder the movement of the torsion bar spring etc. of the trunk lid.
- Do not use parts Ⓐ.

Installation suspendue (Installez l'appareil de façon à ce que la touche EJECT soit en haut.)
Si l'appareil doit être installé sous la plage arrière dans le coffre, par exemple, observez les précautions suivantes.
- Bien choisir l'emplacement pour pouvoir installer l'appareil à l'horizontale.
- Vérifier que l'appareil ne gêne pas les mouvements du ressort de fermeture du coffre, entre autres.
- N'utilisez pas les pièces Ⓐ.

Instalación suspendida (Instálela de forma que el botón EJECT se encuentre hacia arriba.)
Si va a instalar la unidad debajo de la bandeja trasera, etc., del maletero, tenga en cuenta lo siguiente:
- Elija el lugar de montaje cuidadosamente de forma que nos pueda instalar la unidad horizontalmente.
- Asegúrese de que la unidad no dificulta el movimiento del muelle de la barra de torsión, etc., de la tapa del maletero.
- No utilice las piezas Ⓐ.

懸掛裝法（EJECT 鍵必須處於上方）
安裝把行李箱後面安裝好本機的狀況下請特別下列諸點，請注意上下機配。
- 裝機時最好選擇能夠水平安裝的位置安裝。
- 不可裝載行李箱上蓋或尾門鉸鏈、盖彈片的那一部份。
- 不可裝載Ⓐ零件。

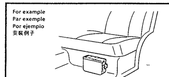

1
ø3.5 mm
Rear tray
Plage arrière
Bandeja trasera
後置備箱
Install so that the EJECT button is up.
Installez l'appareil de façon à ce que la touche EJECT soit en haut.
Instale la unidad de forma que el botón EJECT se encuentre hacia arriba.
弧EJECT 鍵必須露出方向
EJECT
With a coin or something similar, turn the dial so that the arrow is vertical with respect to the ground.
Tournez le disque à l'aide d'une pièce de monnaie ou d'un objet similaire de façon à amener la flèche à la verticale par rapport au sol.
Utilice una moneda o un objeto similar para girar el dial de forma que la flecha se encuentre en posición vertical con respecto al suelo.
以某幣等物旋轉轉盤，使箭頭和地面成水平方向。
2

In-cabin Installation
In some cars it is also possible to install the unit for instance under the rear seats or to other locations in the passenger's cabin.

Montage dans l'habitacle
Sur certaines voitures, il est également possible de monter l'appareil sous la banquette arrière, par exemple, ou encore à d'autres endroits de l'habitacle.

Instalación en el interior de la cabina.
En algunos automóviles también es posible instalar la unidad debajo de los asientos traseros, por ejemplo, o en otro lugar del interior de la cabina de pasajeros.

座位底下裝法
有的汽車可以把汽車機器裝在後座位底下或者客座內某處。



For in-cabin installation, mind the following:
- *Before installing, confirm unimpeded movement of the disc magazine and smooth operation of the EJECT button.*
- *Make sure that no water or foreign matter enters the changer.*
- *Do not apply excessive pressure onto the unit, and handle it carefully.*

Pour une installation dans l'habitacle, conformez-vous aux instructions suivantes :
- *Avant le montage, assurez-vous que le mouvement du magasin à disques n'est pas entravé par quoi que ce soit, ainsi que de bon fonctionnement de la touche EJECT.*
- *Assurez-vous que de la poussière ou de l'eau ne risquent pas de s'introduire dans le chargeur.*
- *N'exercez pas une pression excessive sur l'appareil et manipulez-le avec précautions.*

Para la instalación en el interior de la cabina, tenga en cuenta lo siguiente:
- *Antes de realizar la instalación, asegúrese de que el cargador de discos no encuentre ebstáculos en su movimiento y de que el botón EJECT funciona con normalidad.*
- *Asegúrese de que no se vierta agua ni se introduzcan objetos extraños en el cambiador.*
- *No ejerza demasiada presión en la unidad y utilícela con cuidado.*

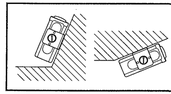
裝給在車裡的轉盤上必需請遵照下列事項：
- *安裝下前，先認定在取用匣時，不受任何干擾，先認定 EJECT 鍵是否容易操作。*
- *不可讓本機或者裝置機內進入雨水，灰塵或異物。*
- *不可將本機過強加壓力壓力，請小心使用。*

Inclined installation
Five marks are above the left and right dials. After installing the unit, align the dials so with one of the marks that the arrows are as vertical as possible.

Installation inclinée
Cinq repères sont opposés au-dessus des cliques gauche et droit. Après avoir installé l'appareil, alignez les cliques sur un repère de façon à ce que les flèches soient dans la position la plus verticale possible.

Instalación inclinada
Existen cinco marcas en la parte superior de los diales izquierdo y derecho. Una vez instalada la unidad, alinee los diales de forma que una de las marcas de las flechas se encuentre en la posición más vertical posible.

傾斜裝法
有五條指針機關上面設有左右調機記。裝好以後，請這樣機關記設設調好使其指針與一個機記，指向與設施盡量相機面成垂直的狀。


Note
Be sure to align the left and right dials with the same mark.
Remarque
Veillez à aligner les cliques gauche et droite sur le même repère.
Nota
Asegúrese de alinear los diales izquierdo y derecho con la misma marca.
註
請使左右兩旁的轉盤上之箭頭與對方同樣標記。

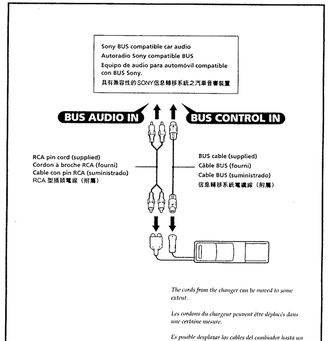
Connections/Connexions/Conexiones/連接

For details, refer to the Installation/Connections manual of the car audio.

Para más información, consulte el manual de instalación/conexiones del equipo de audio para automóvil.

Pour plus de détails, consulter le manuel d'installation/connexions de l'autoradio.

詳細，請參看汽車音響裝置的「安裝／線路之連接」說明書。



Precautions

Moisture condensation
On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In this case, **remove the disc and wait for about an hour until the moisture has evaporated.**

Précautions

Remarque sur la condensation d'humidité
Par temps pluvieux ou dans une région très humide, de l'humidité peut se condenser sur les lentilles à l'intérieur de l'appareil. Dans ce cas, l'appareil ne fonctionne pas correctement. **Enlever le disque et attendre environ une heure que l'humidité s'évapore.**

Precauciones

Condensación de humedad
Es posible que se condense humedad en las lentes del interior de la unidad en un día lluvioso o en una zona muy húmeda. Si esto ocurre, la unidad no funcionará correctamente. En este caso, extraiga el disco y espere durante una hora aproximadamente hasta que se evapore la humedad.

使用前須知事項

關於結露
在雨天或極其潮濕的地方使用本機時，機內的透鏡會起霧結水滴，致使本機不能正常工作。遇此情形時，請把碟片取出，過些時候再行本機使用。

Notes on the Disc Magazine
- Do not leave the disc magazine in locations with high-temperatures and high-humidity, such as on a car dashboard or at the rear window where the disc magazine will be subjected to direct sunlight.
- Do not insert more than one disc at a time into one slot, otherwise the changer and the discs may be damaged.
- Do not drop the disc magazine or subject it to a violent shock.

Remarques sur le chargeur de disques
- Ne pas laisser le chargeur de disques dans un endroit très chaud ou très humide comme sur le tableau de bord ou sur la plage arrière de la voiture où il serait en plein soleil.
- Ne pas insérer plus d'un disque par fente sinon le chargeur et les disques seront endommagés.
- Ne pas laisser tomber le chargeur de disques ni le cogner.

Notas sobre el cargador de discos
- No lo deje en lugares muy húmedos o con temperaturas altas, como en el salpicadero del automóvil o en la ventanilla trasera, expuesto a la luz solar directa.
- Inserte un solo disco en una ranura, ya que pueden dañarse el cambiador y los discos.
- No lo deje caer ni lo someta a golpes violentos.

使用碟片匣時的注意事項
- 不可把碟片匣放在高溫及有濕氣的地方，如汽車儀表板上或汽車後機窗上，以免碟片匣受到陽光直接照射。
- 不可把一個以上的碟片插入一個狹上的碟片，否則碟片機與碟以及碟片匣都將損壞。
- 不可讓碟片匣掉落到地上或受到大角度。

Inserting a Disc
Do not put your hand into the changer, you may get injured.

If the disc magazine does not lock properly
Take out the magazine, and after pressing the EJECT button, reinsert it.

Use the unit with the door closed
Otherwise, foreign matter may enter the unit and contaminate the lenses inside the changer.

Introduction d'un disque
N'introduisez pas la main dans le chargeur, car vous risque de vous blesser.

Si vous ne pouvez pas fermer le chargeur de disques
Sortez le chargeur et, après avoir appuyé sur la touche EJECT, réintroduisez-le.

Utiliser cet appareil avec la trappe fermée
Sinon, des corps étrangers pourraient pénétrer dans l'appareil et encrasser les lentilles dans le lecteur.

Inserción de discos
No introduzca la mano en el cambiador, ya que puede herirse.

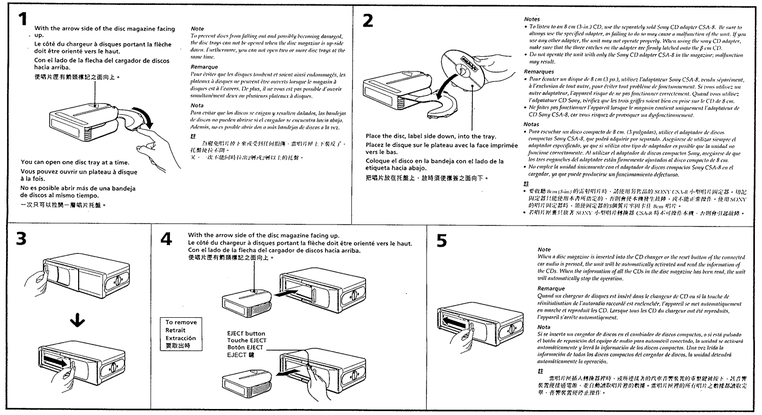
Si el cargador de discos no se cierra correctamente
Extraiga el cargador, pulse el botón EJECT y vuelva a insertarlo.

Emplee la unidad con la puerta cerrada
De no ser así, es posible que se introduzcan objetos extraños y ensucien las lentes del interior del cambiador.

唱片裝法
不可把手伸入轉換器裡，以免手被夾住。

若唱片匣不能牢固插入音響裝置裡
請取出唱片匣，按壓 EJECT 鍵，然後再插入看看。

唱機操作時必須把蓋子關好
以免異物混入機內或者污損機件器的透鏡。


1
With the arrow side of the disc magazine facing up:
Le côté du chargeur à disques portant la flèche doit être orienté vers le haut.
Con el lado de la flecha del cargador de discos hacia arriba.
使碟片匣有箭頭標記之面向上。
You can open one disc tray at a time.
Vous pouvez ouvrir un plateau à disque à la fois.
No es posible abrir más de una bandeja de discos al mismo tiempo.
一次只可以打開一個碟片托盤。
Note
To prevent discs from falling out and possibly becoming damaged, the disc trays can not be opened when the disc magazine is up-side down. Furthermore, you can not open two or more disc trays at the same time.
Remarque
Pour éviter que les disques tombent et soient ainsi endommagés, les plateaux à disques ne peuvent être ouverts lorsque le magasin à disques est à l'envers. De plus, il ne vous est pas possible d'ouvrir simultanément deux ou plusieurs plateaux à disques.
Nota
Para evitar que los discos se caigan y resulten dañados, las bandejas de discos no pueden abrirse con el cargador en posición invertida. Además, no puede abrir dos o más bandejas de discos a la vez.
註
為避免碟片從卡匣中取出而損壞或掉落以防止碟片，在卡匣倒置時不能打開卡匣。又一次不能把兩片以上的碟片從卡匣打開。
The cords from the changer can be routed to some extent.
Les cordons du chargeur peuvent être déplacés dans une certaine mesure.
Es posible desplazar los cables del cambiador hasta un punto determinado.
可打開換器的電線可做相當程度之移動。
2
Place the disc, label side down, into the tray.
Placez le disque sur le plateau avec la face imprimée vers le bas.
Coloque el disco en la bandeja con el lado de la etiqueta hacia abajo.
把唱片放在托盤上，請特別要使圖案之面向下。
Notes
- To listen to an 8 cm CD in 12 cm, be sure to use the 8 cm CD adaptor CSA-8. Be sure to always use the specified adaptor, as failing to do so may cause a malfunction of the unit. If you use any other adaptor, the unit may not operate properly. When using the Sony CD adaptor, make sure that the three catches on the adaptor are firmly latched onto the 8 cm CD.
- Do not operate the unit with only the Sony CD adaptor CSA-8 in the magazine; malfunction may result.
Remarques
- Pour écouter un disque de 8 cm (3 po.), utilisez l'adaptateur Sony CSA-8, prenez soigneusement à l'esprit de tout faire, pour éviter tout problème de fonctionnement. Si vous utilisez un autre adaptateur, l'appareil risque de ne pas fonctionner correctement. Quand vous utilisez l'adaptateur CD Sony, vérifiez que les trois griffes soient bien en prise sur le CD de 8 cm.
- Ne faites pas fonctionner l'appareil lorsque le magasin contient seulement l'adaptateur de CD Sony CSA-8, car vous risquez de provoquer un dysfonctionnement.
Notas
- Para escuchar un disco compacto de 8 cm. (3 pulgadas), utilice el adaptador de discos compactos Sony CSA-8, que podrá adquirir por separado. Asegúrese de utilizar siempre el adaptador especificado, ya que si utiliza otro tipo de adaptador es posible que la unidad no funcione correctamente. Al utilizar el adaptador de discos compactos Sony, asegúrese de que las tres engarzadas del adaptador están firmemente ajustadas al disco compacto de 8 cm.
- No emplee la unidad únicamente con el adaptador de discos compactos Sony CSA-8 en el cargador, ya que puede producirse un funcionamiento defectuoso.
註
- 要收聽 8cm(3 inch) 的盲碟時片時，請使用盲碟適轉 SONY CSA-8 小型碟片附設之器。切記與設置只能使用本所用的設施，否則會使本機無法正常操作。使用 SONY 的碟片時之前提，請確認設置的施置可牢固卡住 8cm 碟片。
- 若碟片匣裝只裝有 SONY 小型碟片轉換器 CSA-8 時本機仍本機，本機無法設錯誤。
3
4
With the arrow side of the disc magazine facing up.
Le côté du chargeur à disques portant la flèche doit être orienté vers le haut.
Con el lado de la flecha del cargador de discos hacia arriba.
使碟片匣有箭頭標記之面向上。
To remove
Retrait
Extracción
要取出時
EJECT button
Touche EJECT
Botón EJECT
EJECT 鍵
5

This way
Oui
Así no
正確拿法

Not this way
Non
Así no
不行

Notes on Compact Discs
A dirty or defective disc may cause sound drop-outs during playback. To enjoy optimum sound, handle the disc as follows.

Handle the disc by its edge, and to keep the disc clean, do not touch the surface which has no label.

Do not stick paper or tape on the labeled surface.

Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or do not leave it in a car parked in direct sunlight where there can be a considerable rise in the temperature inside the car.

Before playing, clean the discs with an optional cleansing cloth. Wipe each disc in the direction of the arrows.

Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

Remarques sur les disques compacts
Un disque sale ou défectueux peut provoquer des pertes de son à la lecture. Manipuler le disque comme suit pour obtenir un son optimal.

Tenir le disque par son arête et ne pas toucher la surface non imprimée.

Ne pas coller de papier ni de ruban adhésif sur la surface imprimée.

Ne pas laisser les disques en plein soleil ou près d'une source de chaleur comme un conduit d'air chaud, ni dans une voiture garée en plein soleil car la température de l'habitacle risque d'augmenter considérablement.

Avant la lecture, essuyer les disques avec un chiffon de nettoyage en option. Essuyer chaque disque dans le sens des flèches.

Ne pas utiliser de solvants tels que de la benzine, du diluant, de produits de nettoyage vendus dans le commerce ou de vaporisateurs anti-statiques destinés aux disques analogiques.

Notas sobre discos compactos
Es posible que se produzca ausencia de sonido durante la reproducción, si el disco está sucio o es defectuoso. Para disfrutar de una calidad de sonido óptima, utilice el disco de la siguiente forma.

Coja el disco por los bordes y para mantenerlo limpio, no toque la superficie sin etiqueta.

No adhiera papel ni cinta adhesiva sobre la superficie con etiqueta.

No exponga los discos a la luz solar directa ni a fuentes térmicas como conductos de aire caliente; no los deje en un automóvil aparcado bajo la luz solar directa, ya que puede producirse un considerable aumento de temperatura en el interior del automóvil.

Antes de la reproducción, limpie los discos con un paño de limpieza opcional en la dirección de las flechas.

No utilice disolventes como bencina, diluyentes, productos de limpieza disponibles en tiendas del ramo ni aerosoles antiestáticos destinados a discos analógicos.

使用盲射唱片時的注意事項
唱片髒了或有缺點，在播放之中會引起聲音跳音。為重播得最佳音響，請注意下列事項。

唱片請會住邊緣，要保持唱片清潔，不可觸碰貼有標籤的唱片表面。

不可在唱片表面黏貼紙張。

不要把唱片放在受陽光直接照射，或暖氣機器等高溫之處，也不可放在陽光底下的停車場之汽車裡，因為容內溫度將極其昂貴。

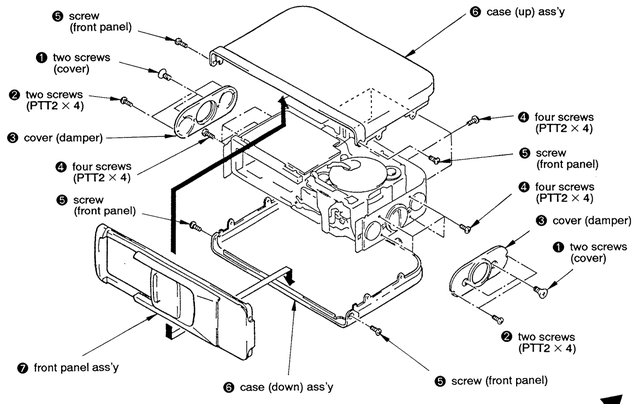
請做以前，請先以另外品的潔試用具布擦拭一次，擦時，要由內向外擦去。

絕對只用，不可使用如揮發性油脂、稀釋液等溶劑、或一般容器上販賣的清潔劑或設用專門只用的抗靜電噴霧劑等。

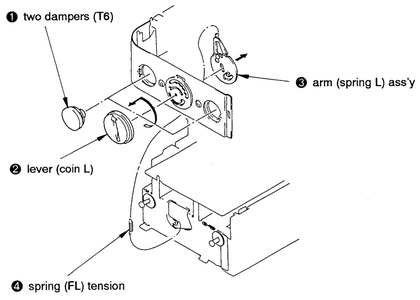
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

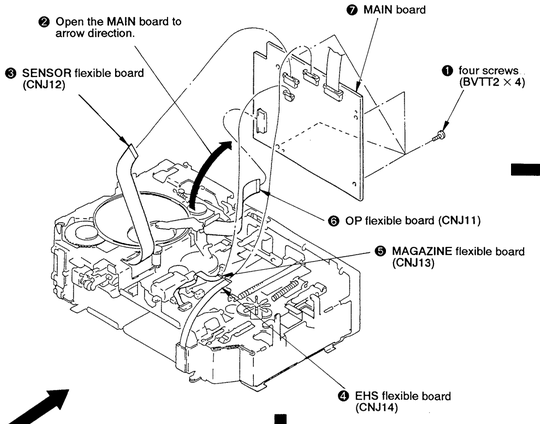
CASE, FRONT PANEL ASS'Y


❺ screw (front panel)
❶ two screws (cover)
❷ two screws (PTT2 × 4)
❸ cover (damper)
❹ four screws (PTT2 × 4)
❺ screw (front panel)
❻ case (up) ass'y
❹ four screws (PTT2 × 4)
❺ screw (front panel)
❹ four screws (PTT2 × 4)
❸ cover (damper)
❶ two screws (cover)
❷ two screws (PTT2 × 4)
❼ front panel ass'y
❽ case (down) ass'y
❺ screw (front panel)

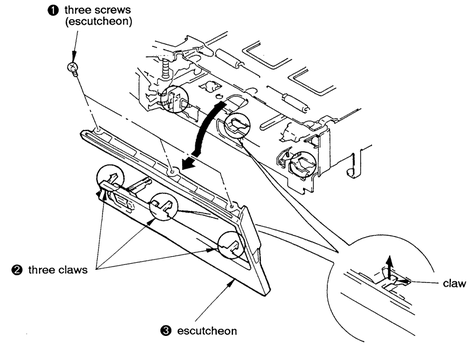
CASE (MD) ASS'Y



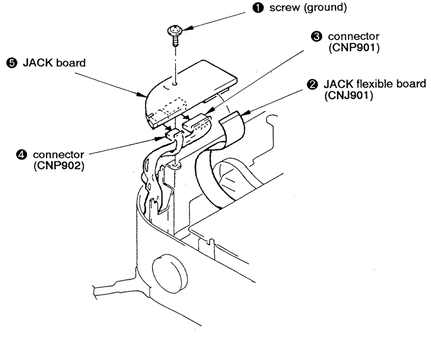
MAIN BOARD

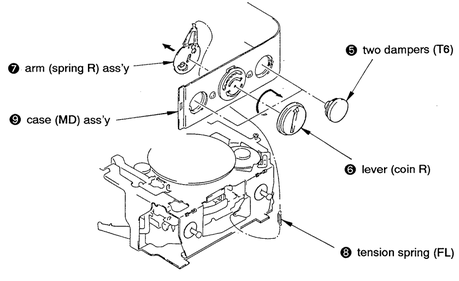

❷ Open the MAIN board to arrow direction.
❼ MAIN board
❸ SENSOR flexible board (CNJ12)
❶ four screws (BVTT2 × 4)
❻ OP flexible board (CNJ11)
❺ MAGAZINE flexible board (CNJ13)
❹ EHS flexible board (CNJ14)

ESCUTCHEON

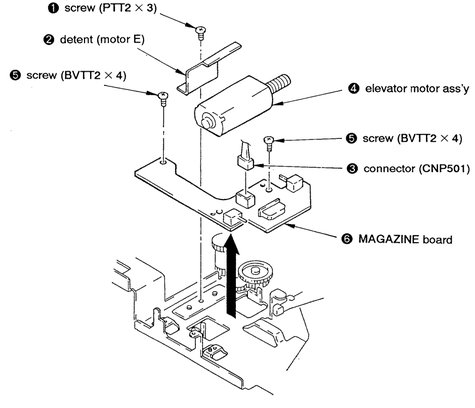


JACK BOARD

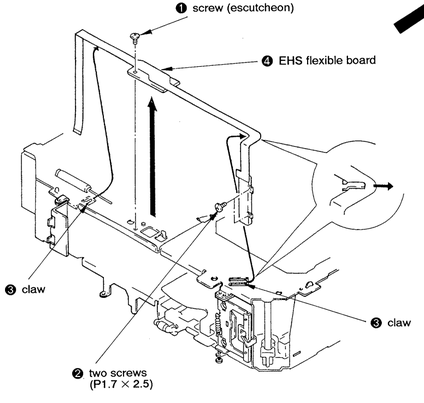




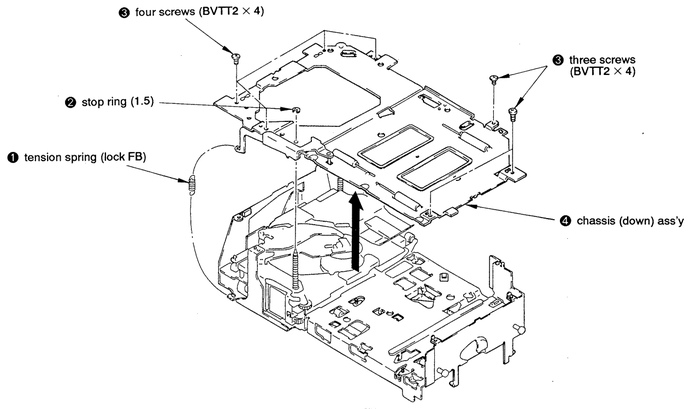
ELEVATOR MOTOR ASS'Y (M601), MAGAZINE BOARD



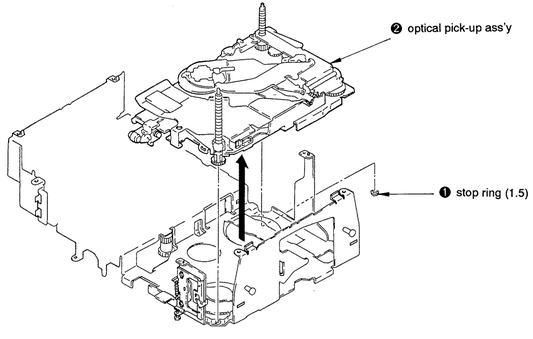
EHS FLEXIBLE BOARD



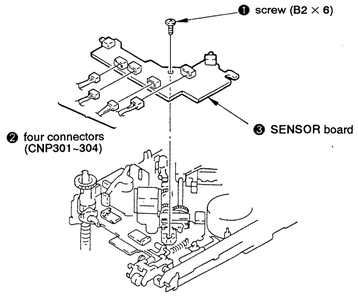
CHASSIS (DOWN) ASS'Y



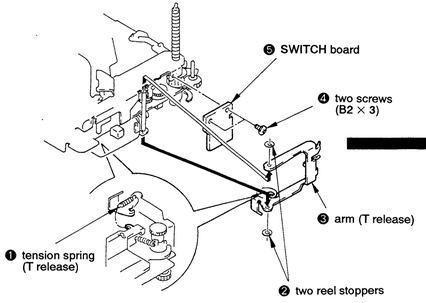
OPTICAL PICK-UP ASS'Y



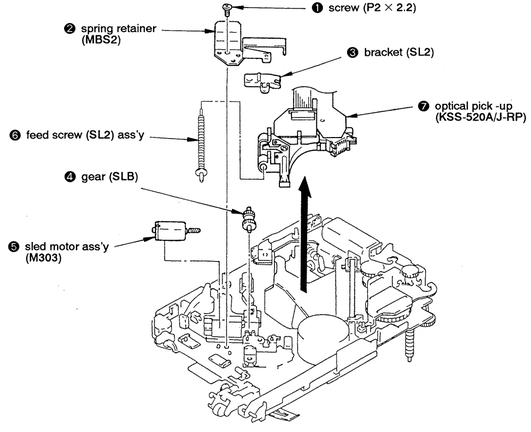
SENSOR BOARD



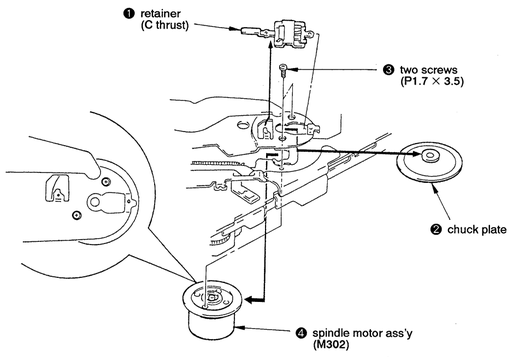
SWITCH BOARD



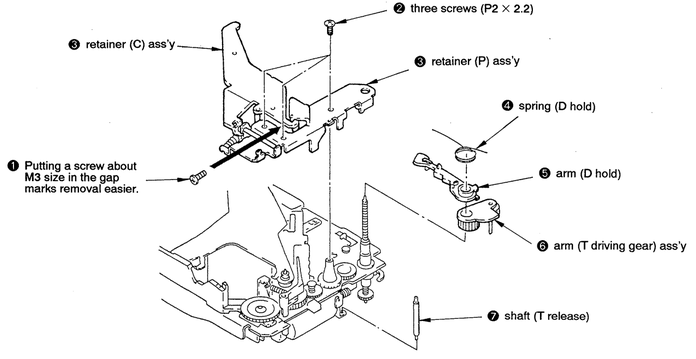
SLED MOTOR ASS'Y (M303), OPTICAL PICK-UP (KSS-520A/RP)


❶ screw (P2 × 2.2)
❷ spring retainer (MBS2)
❸ bracket (SL2)
❼ optical pick -up (KSS-520A/J-RP)
❻ feed screw (SL2) ass'y
❹ gear (SLB)
❺ sled motor ass'y (M303)

SPINDLE MOTOR ASS'Y (M302)



RETAINER (P), ARM (T DRIVING GEAR) ASS'Y

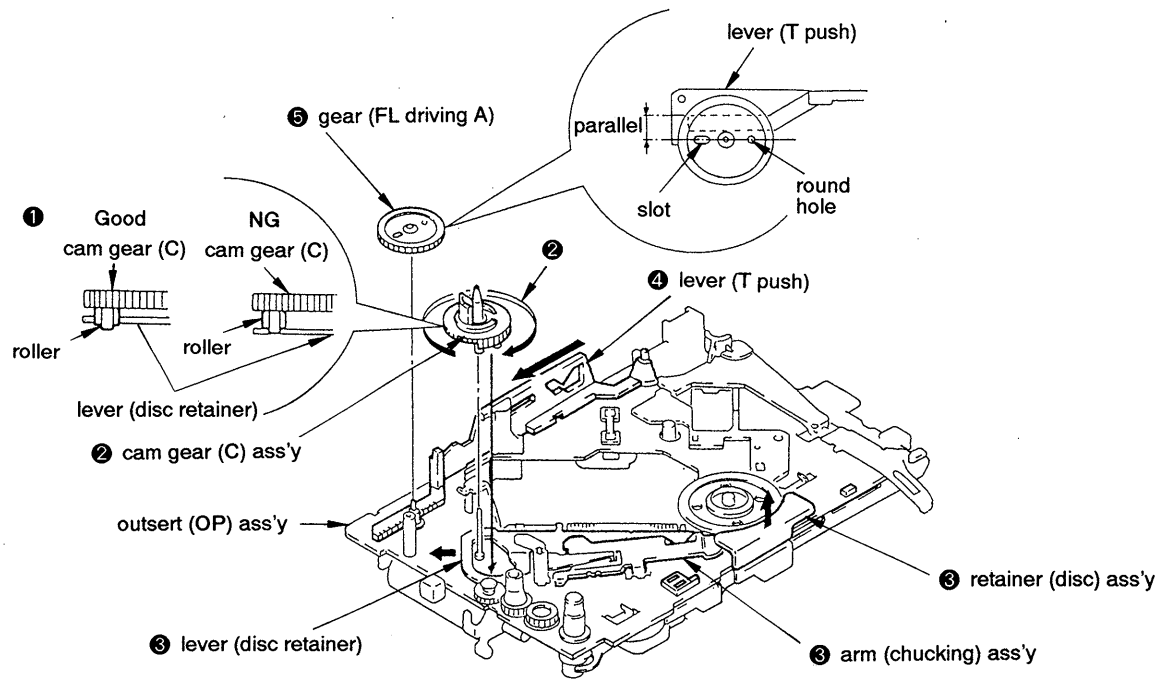

❷ three screws (P2 × 2.2)
❸ retainer (C) ass'y
❸ retainer (P) ass'y
❹ spring (D hold)
❶ Putting a screw about M3 size in the gap marks removal easier.
❺ arm (D hold)
❻ arm (T driving gear) ass'y
❼ shaft (T release)

SECTION 3
INSTALLATION

Note: Follow the assembly procedure in the numerical order given.

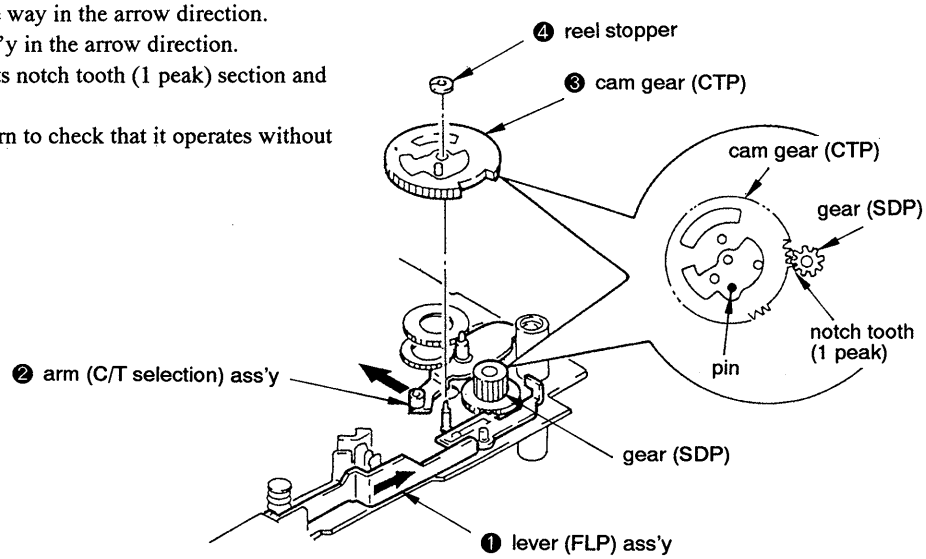
CAM GEAR (C) ASS'Y, GEAR (FL DRIVING A)

❶ Install the cam gear (C) ass'y.
(The cam gear (C) roller must securely enter the irregularly shaped hole in the lever (disc retainer).)
❷ Turn the cam gear (C) ass'y all the way clockwise.
❸ Check that the lever (disc retainer) and arm (chucking) ass'y each move in the direction of the arrow (with the retainer (disc) ass'y up in the direction of the arrow.)
❹ Slide the lever (T push) all the way in the direction of the arrow.
❺ Install the gear (FL drive A) so that the extension line between the gear (FL driving A) slot ⬭ and round hole ○ is parallel with the level (T push).
Rotate the gear (FL driving A) and check that it meshes.



CAM GEAR (CTP)

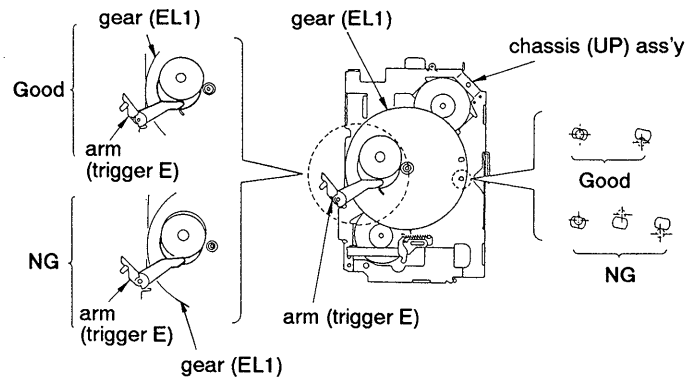
❶ Slide the lever (FLP) ass'y all the way in the arrow direction.
❷ Move the arm (C/T selection) ass'y in the arrow direction.
❸ Install the cam gear (CTP) with its notch tooth (1 peak) section and the gear (SDP) meshing.
Rotate the cam gear (CTP) 1/4 turn to check that it operates without catching or other obstruction.
❹ Install the reel stopper.

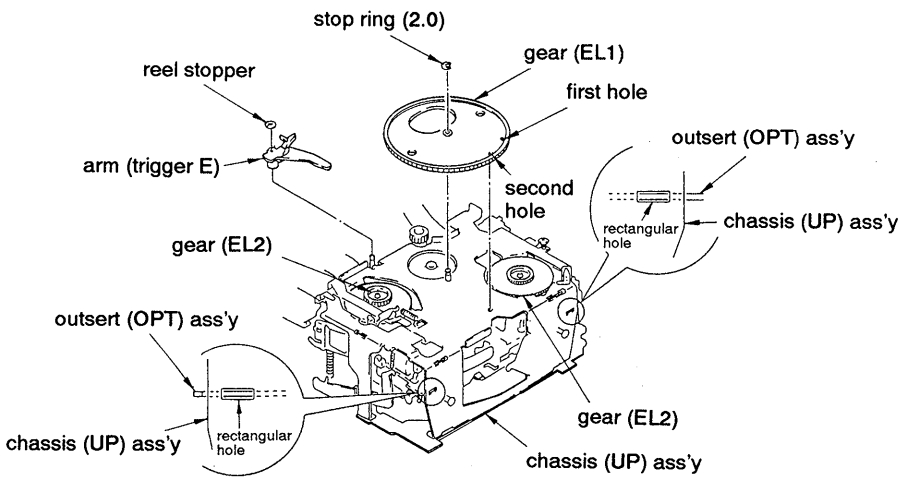


SECTION 4
MECHANICAL ADJUSTMENTS

ELEVATOR HEIGHT ADJUSTMENT
(Elevator Address 1 Adjustment)

1. Remove the arm (trigger E) and gear (EL1).
2. Turning the two gears (EL2) changes the elevator height. Turn the two gear (EL2) together and align the center of the rectangular hole of the chassis (FA) ass'y with the outsert (OPT) ass'y. (Elevator Address 1 adjustment)
   * The left side gear (EL2) is harder to turn than the right side gear (EL2), so use some strength tuning it.
3. Without moving the two gear (EL2), install the gear (EL1) so that the second hole on the gear (EL1) is aligned with the hole in the chassis (FA) ass'y.
4. Install the arm (trigger E) so that arm (trigger E) Ⓐ section is directly above the hole in the gear (EL1).



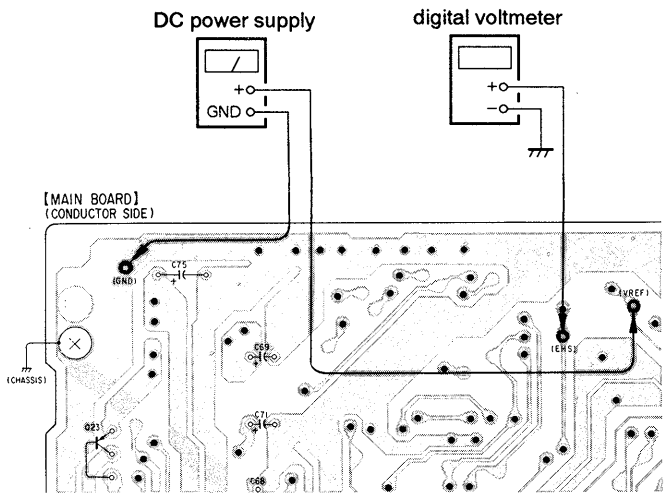


LINEAR POSITION SENSOR ADJUSTMENT

Note:

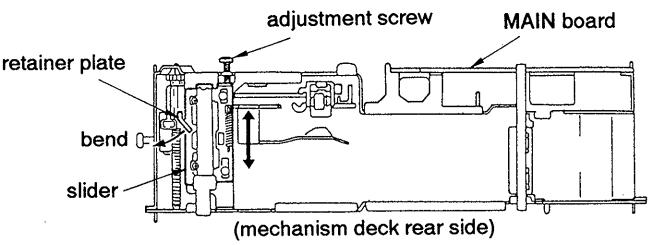
1. When the elevator height is adjusted as part of any repairs, the linear position sensor (RV601) must be adjusted.
   This adjustment is for absorbing the variation in the performance of the RV601 parts and is not a mechanical deck adjustment.
   Therefore, this adjustment is only carried out when the mechanical deck elevator height adjustment (Address 1 adjustment) is made.
2. Never supply power to the set main unit during this adjustment. (Have the bus cable disconnected.)

Setting:



Adjustment method:

1. Extend the plate holding down the RV601 slider with radial pliers to free the slider.
2. Connect the TP (VREF) on the main board to a DC power supply.
3. Connect a digital voltmeter to the MAIN board TP (EHS).



4. Supply 5.00 ± 0.01 V power from the DC power supply to the TP (VREF).
5. Turn the adjustment screw so that the digital voltmeter reads 4.030 ± 0.02 V.
6. After the adjustment, disconnect the stabilized power supply and the digital voltmeter.
7. Apply the power supply to the set main unit, insert the magazine, operate, and check that there is no address deviation.
8. Bend the retainer plate back the way it was originally.
9. Apply suitable locking compaund to the adjustment screw.

   * After adjusting the linear position sensor (RV601), put in the magazine and operate. If address deviation is found, recheck the elevator height adjustment (Elevator Address 1 adjustment). The following causes are possible.

     Examples:

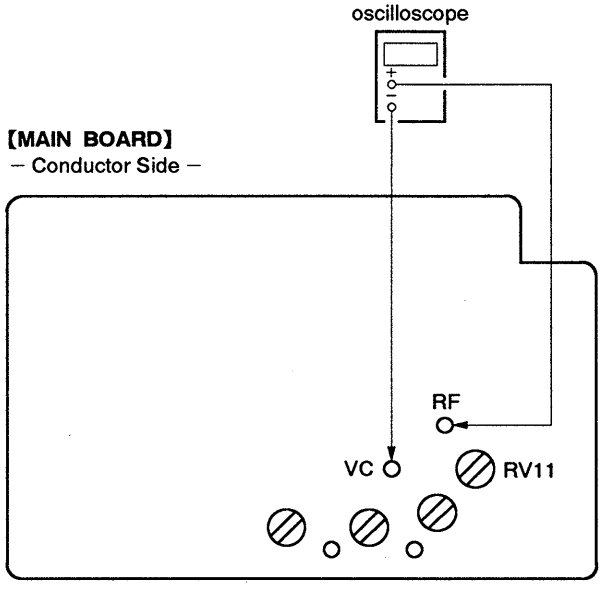
     - The mechanical deck gear (TDFP) and magazine gear teeth are not meshing.
     - During ejection, the gear (EL1) was not in the prescribed position.
     - After magazine ejection was carried out five times, the magazine lock was unlocked.

SECTION 5
ELECTRICAL ADJUSTMENTS

1. Perform adjustments as given.
2. Be sure to use the disc "YEDS-18" parts code: 3-702-101-01, but only when indicated.
3. Power supply voltage: DC14.4 V (more than 10A).

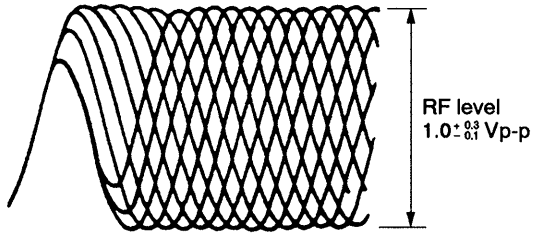
5-1. FOCUS OFFSET ADJUSTMENT

Procedure:



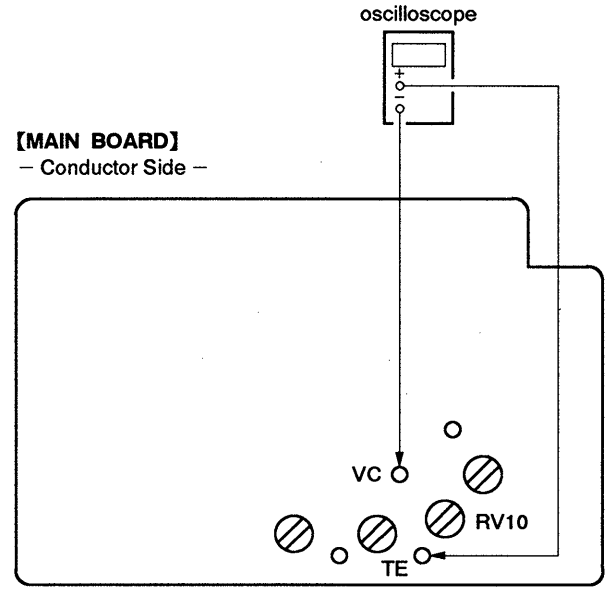
1. Connect the oscilloscope to MAIN board test point RF.
2. Put the set into play mode by loading the disc.
3. Adjust (MAIN board) RV11 so that the oscilloscope. Waveform eye pattern is good.
   (A good eye pattern means that the diamond shape (◇) in the center of the oscilloscope can be clearly distinguished.)

Volt/Div: 200 mV
Time/Div: 0.5 μsec



5-2. TRACKING OFFSET ADJUSTMENT

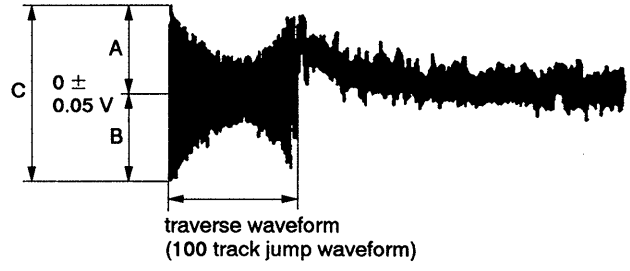
Procedure:



1. Connect the oscilloscope to MAIN board test point TE.
2. Put the set into play mode by loading the disc.
3. Press the ⏮ AMS ⏭ button, then, check the traverse waveform*.
4. Adjust RV10 (MAIN board) so that oscilloscope reading is symmetrical in relation to 0 V.

*Traverse waveform: This is the tracking error waveform appears when crossing the track.

Volt/Div: 0.2 V
Time/Div: 2msec
Center 0 ± 0.05 V



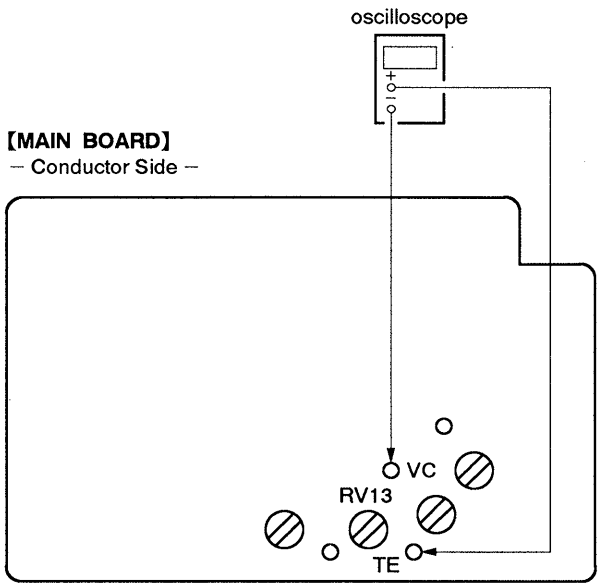
5-3. TRACKING GAIN ADJUSTMENT (COARSE ADJUSTMENT)

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV13

This adjustment should be performed after focus offset and tracking offset adjustments are completed.

Procedure:



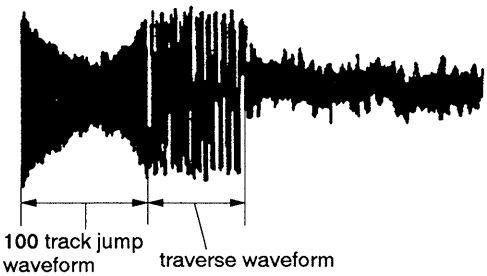
1. Connect the oscilloscope to MAIN board test point TE.
2. Put the set into play mode by loading the disc.
3. Turn MAIN board RV13 from clockwise stop, then check the oscilloscope waveform.
   Fix RV13 at the position where the waveform disappears.

Volt/Div: 0.2 V
Time/Div: 2 msec

waveform when the wave appears

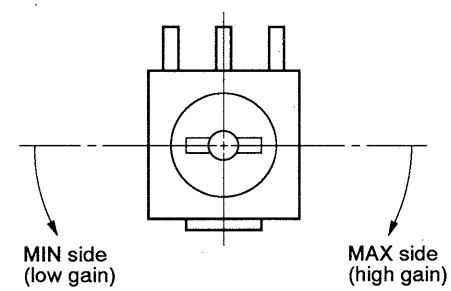
waveform when the wave disappears

- **When gain lowered...**
  When selecting by pressing ⏮ AMS ⏭ button, brake application is poor because of low tracking gain. Therefore, the traverse waveform appears after the 100 track jump waveform, then the selection will be located slowly.



- **When gain is highered...**
  Operation noise is heard due to a scratch or dust, then operation will be instability.

[MAIN BOARD]
– Component Side –



RV13 standard position

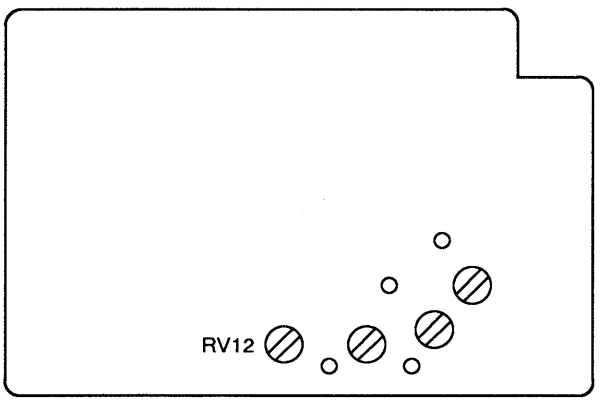
5-4. FOCUS GAIN ADJUSTMENT (COARSE ADJUSTMENT)

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV12

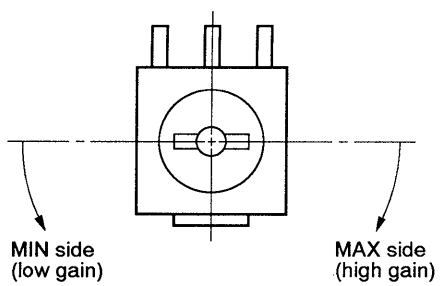
Procedure:

[MAIN BOARD]
– Conductor Side –



1. Set RV12 (MAIN board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis devise. If there is, turn RV12 slightly clockwise.

[MAIN BOARD]
– Component Side –



RV12 standard position

- **When gain is lowered...**
  The set does not play because of no focus operation.
- **When gain is highered...**
  Operation noise is heard due to a scratch or a dust, then operation will be unstable.

SECTION 6
DIAGRAMS

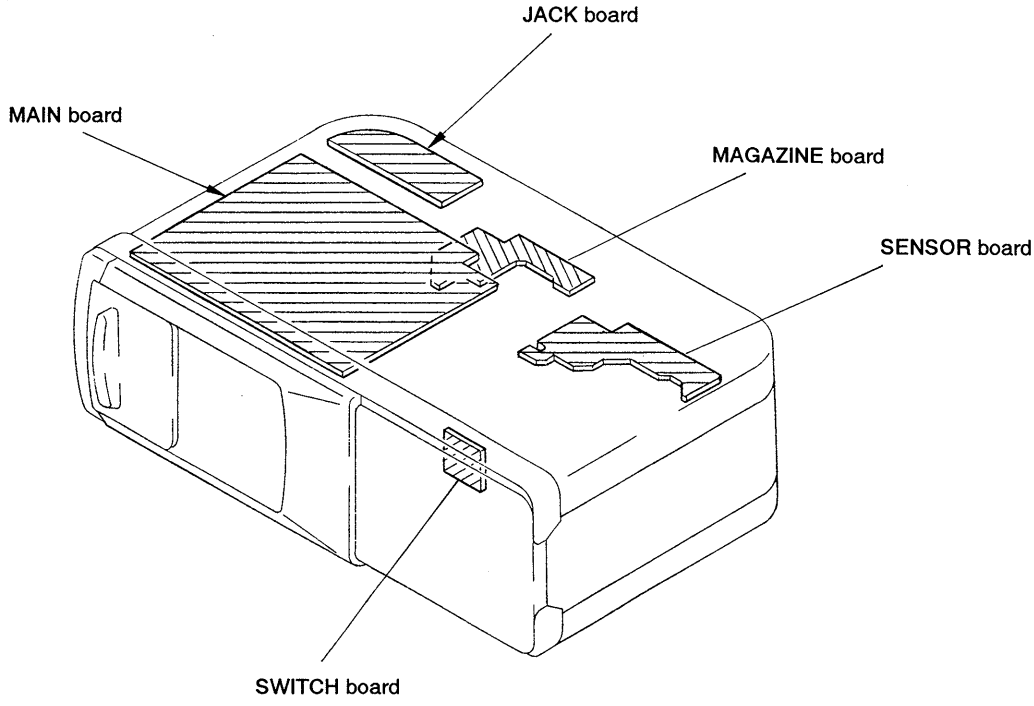
6-1. IC PIN FUNCTION DESCRIPTION

IC14 CXP84124-036Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	$\overline{\text{LIMSW}}$	I	Limit switch input. "L" when limit switch is pressed, or "H" for others.
2	BUSON	I	Bus on input. "H"at bus on.
3	EJECT	I	Eject key input. "H" at eject on.
4	—	—	Not used.
5	—	—	
6	8CMDISC	I	8 cm disc sensor input. In case of 8 cm disc, "H" at chucking.
7	$\overline{\text{END.SW}}$	I	End switch input. "L" between start of disc loading and completion of chucking. "H" for others.
8	CH.R	O	Chucking motor control output.
9	CH.F	O	
10	ELV.F	O	Elevator motor control output.
11	ELV.R	O	
12	ELV.ON	O	Mecha. system power supply control output. On at "H".
13	CDRST	O	Servo system reset output. Reset at "H".
14	CDON	O	Servo system power supply control output. On at "H".
15	$\overline{\text{APC}}$	O	Laser on/off control output. On at "L".
16	A-MUTE	O	Audio output muting control output. Mute on at "H".
17	EMPH	O	Emphasis control output. Emphasis on at "H".
18	A.OUT	I	Function (provided, not provided) setting.
19	D.OUT	I	
20	EEPROM	I	
21	—	—	Not used.
22	—	—	
23	—	—	
24	—	—	
25	—	—	
26	—	—	
27	—	—	
28	—	—	
29	—	—	
30	$\overline{\text{RESET}}$	I	Reset input. Reset on at "L".
31	EXTAL	I	Crystal connection for system clock oscillation. (8 MHz)
32	XTAL	O	
33	VSS	—	GND
34	TX	O	Crystal connection for 32 kHz time counter clock oscillation. Not used in this machine.
35	TEX	I	
36	AVSS	—	GND of A/D converter.
37	AVREF	I	A/D converter reference voltage input.
38	—	—	Not used.
39	—	—	
40	EHS	I	Elevator height detection voltage input.

Pin No.	Pin Name	I/O	Function
41	—	—	Not used.
42	—	—	
43	—	—	
44	—	—	
45	—	—	
46	—	—	
47	—	—	
48	SCK	I	Serial clock input.
49	SI	I	Serial data input.
50	SO	O	Serial data output.
51	SQCLK	O	Clock SQ output to DSP.
52	SUBQ	I	SUBQ input.
53	—	—	Not used.
54	—	—	
55	D.O.ON/OFF	I	Digital output on/off input. On at "H".
56	SCOR	I	Sub-code sync detection signal input from SDP.
57	$\overline{\text{MAG.SW}}$	I	Magazine switch input. "L" when magazine is set.
58	—	—	Not used.
59	—	—	
60	SENS	I	Sence signal input from SSP. Used only for automatic adjustment (not used in this machine).
61	BUCHECK	I	Back-up detection input. Back-up on at "H".
62	W.UP	I	Wake up detection input. Wake up on at "⌐↓¬".
63	C.OUT	I	C.OUT input from SSP. Used only for automatic adjustment (not used in this machine).
64	EEDATA	I/O	E^2PROM data input/output.
65	EECLK	O	Clock output for E^2PROM writing/reading.
66	EEINIT	I	E^2PROM initializing input. E^2PROM is initialized at "¬↓_".
67	$\overline{\text{PGM}}$	I	Program play on/off setting input. On at "L".
68	$\overline{\text{SINGLE}}$	I	Single mode setting input. On at "L".
69	FOK	I	Focus OK signal input from DSP.
70	GFS	I	Guarded frame sync input from DSP.
71	SENSIN	I	Sense signal input from DSP.
72	VDD	—	Positive power supply pin.
73	NC	—	No connection. Connected to VDD in normal operation.
74	CDCLK	O	Clock output pin for servo control serial data transfer.
75	CDXLT	O	Servo control latch output.
76	CDDATA	O	Servo control serial data output.
77	—	—	Not used.
78	$\overline{\text{POS.SW}}$	I	Position switch input. "L" when elevator positions at address 1.
79	$\overline{\text{CHK.SW}}$	I	Chucking switch input. "L" at chucking on.
80	$\overline{\text{DISC.SW}}$	I	Disc switch input. "L" when disc is present.

- **Circuit Boards Location**



SEE ADDITIONAL INFORMATION

6-2. PRINTED WIRING BOARDS • See page 20 for Circuit Boards Location.

• **Semiconductor Location**

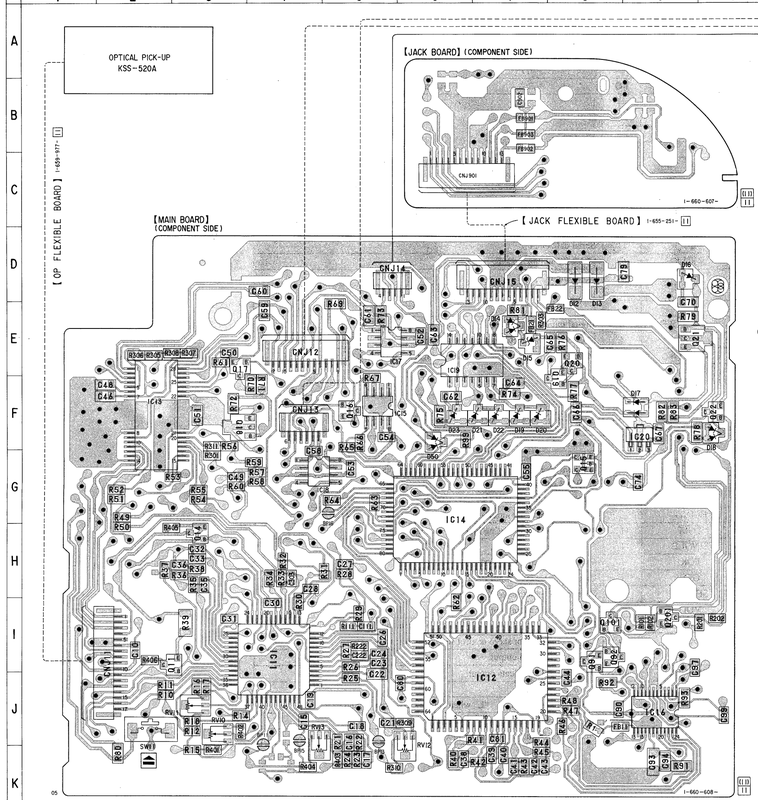
Ref. No.	Location
D12	D-8
D13	D-8
D14	E-7
D15	E-7
D16	D-9
D17	F-9
D18	F-10
D19	F-7
D20	F-7
D21	F-7
D22	F-7
D23	F-6
D50	F-6
D601	C-25
IC11	I-4
IC12	J-7
IC13	F-2
IC14	G-6
IC15	F-5
IC16	J-9
IC17	E-5
IC18	G-4
IC19	E-6
IC20	F-9
IC21	G-11
IC22	G-12
Q11	I-2
Q14	H-3
Q15	F-8
Q16	F-5
Q17	E-3
Q18	F-3
Q19	F-8
Q20	E-8
Q21	E-9
Q22	F-10
Q23	E-11
Q91	I-8
Q92	I-8
Q101	I-8
Q201	I-9
Q501	B-24

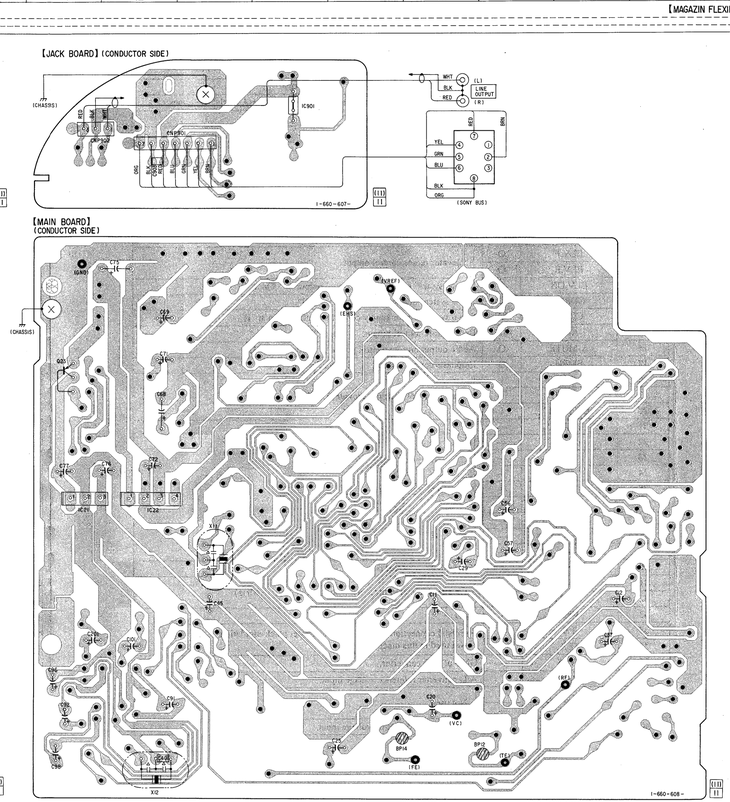
Note:

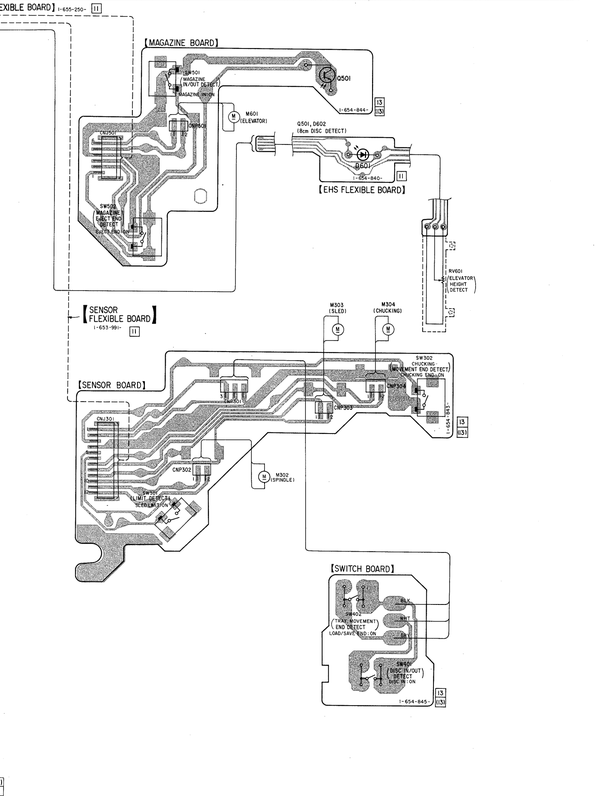
- ○—— : parts extracted from the component side.
- ● : Through hole.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

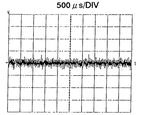




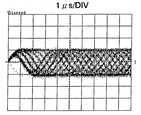


• Waveforms

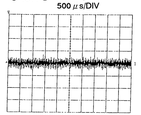
❶ IC11 ① 200mV/DIV 500 μs/DIV



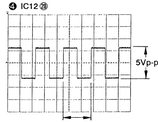
❷ IC11 ㉓ 0.5V/DIV 1 μs/DIV



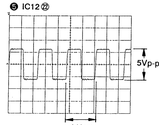
❸ IC11 ㊷ 200mV/DIV 500 μs/DIV



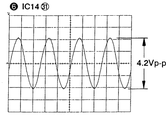
❹ IC12 ㉘



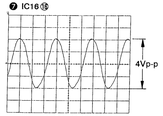
❺ IC12 ㉒



❻ IC14 ㊶

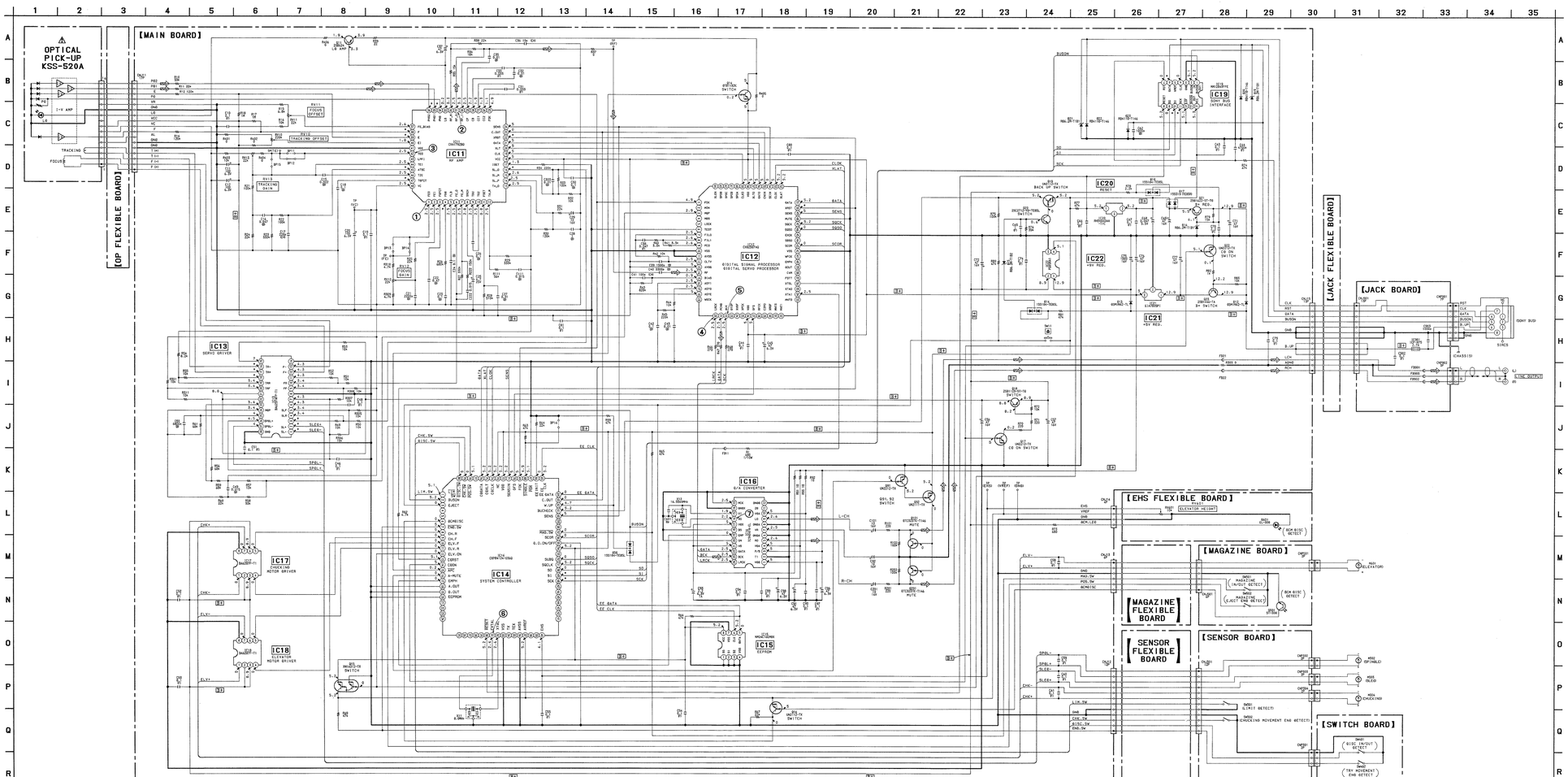


❼ IC16 ㊸



SEE ADDITIONAL INFORMATION

6-3. SCHEMATIC DIAGRAM • See page 29 for IC Block Diagrams.



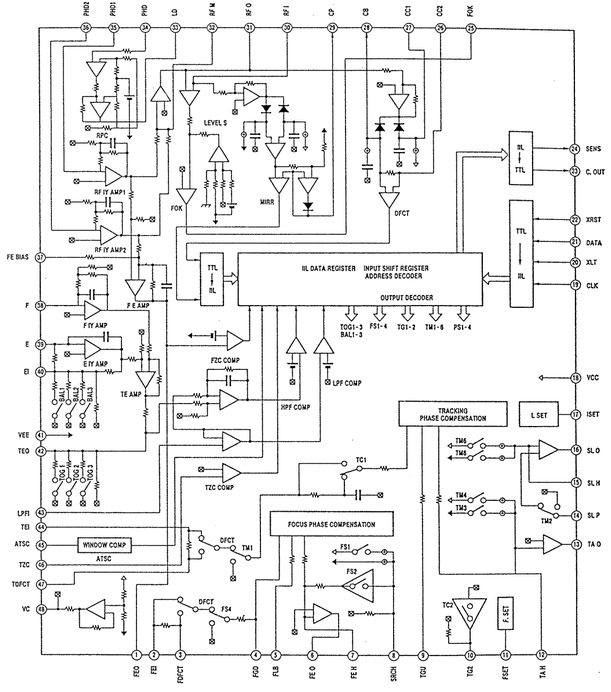
Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

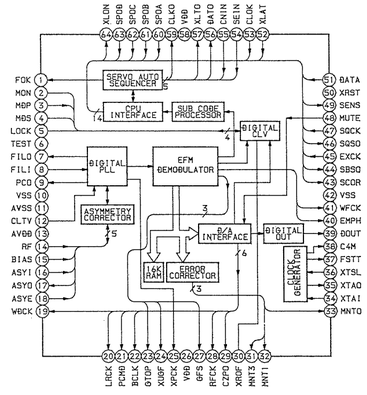
- B+ : B + Line.
- : panel designation.
- : adjustment for repair.
- Power voltage is dc 14.4 V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  ✻ : Impossible to measure
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path. : CD

• IC Block Diagrams

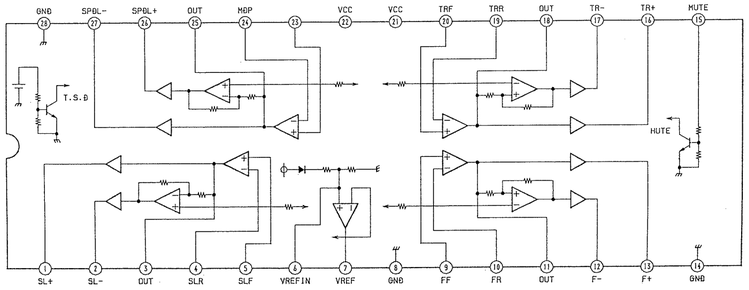
IC11 CXA1782BQ



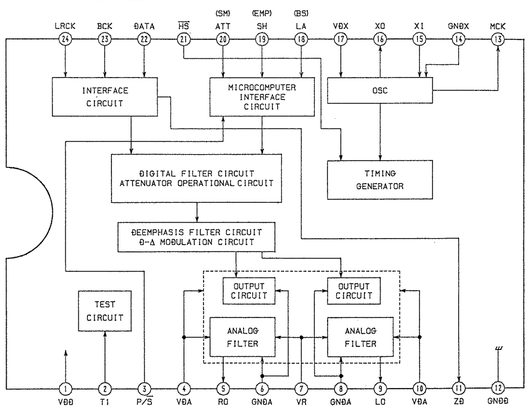
IC12 CXD2507AQ



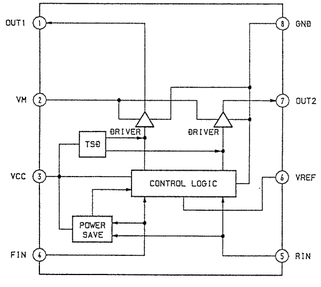
IC13 BA6297AFP



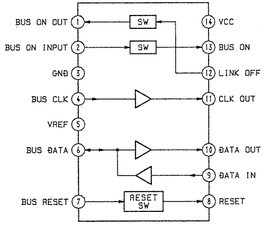
IC16 TC9404FN-EL



IC17, 18 BA6287F



IC19 MM1284XFFE



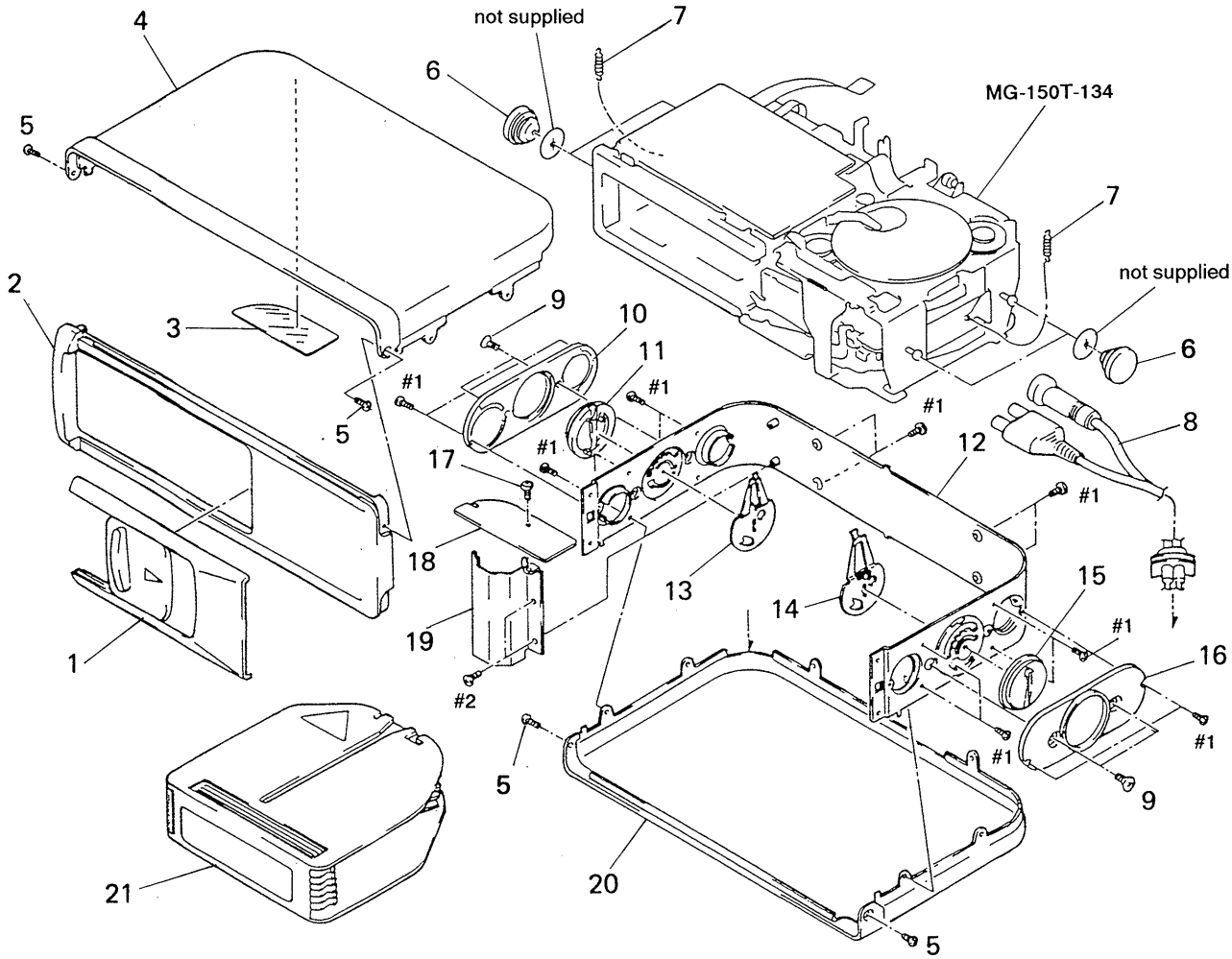
SECTION 7
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

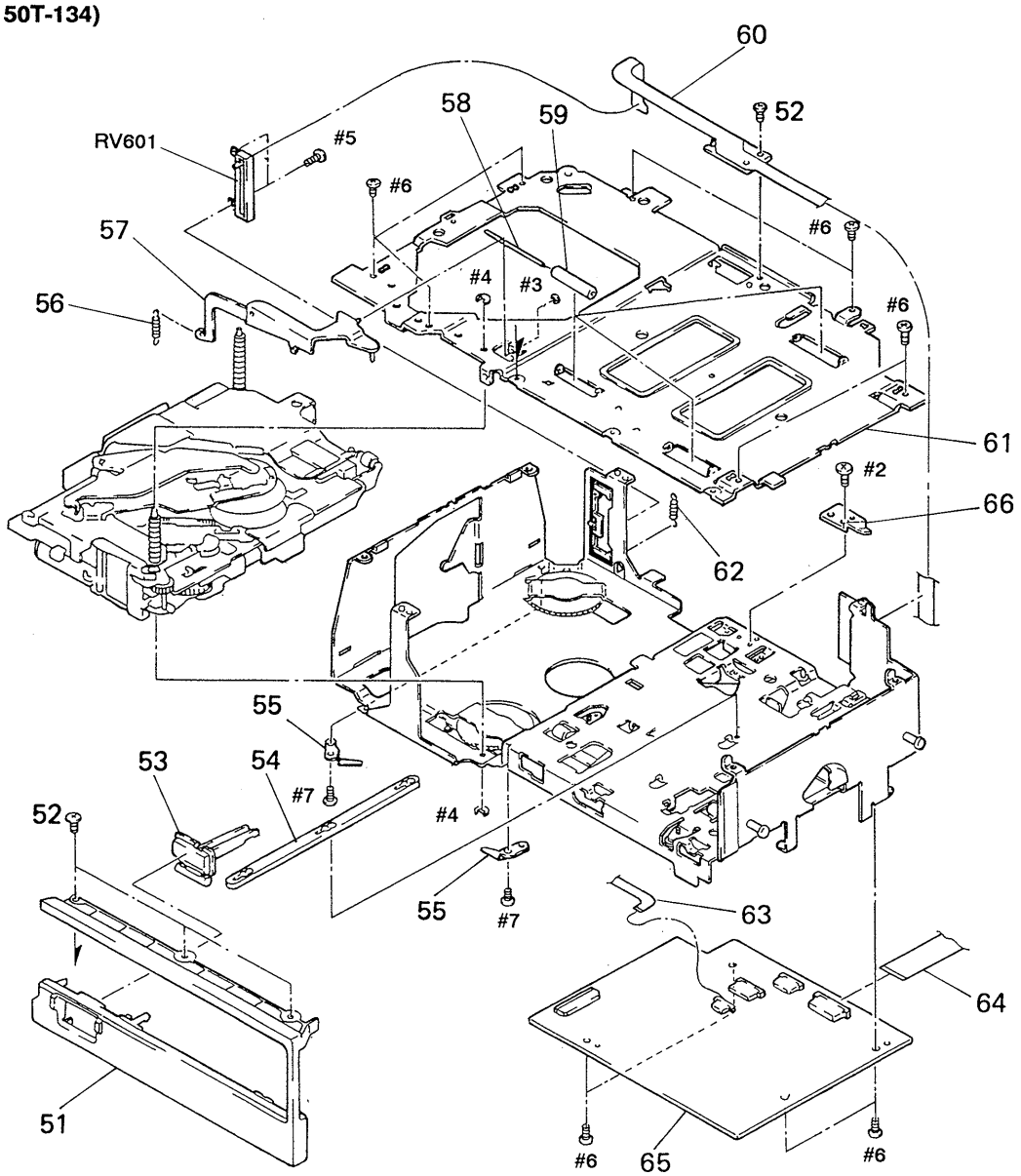
(1) CASE SECTION



Ref. No.	Part No.	Description	Remark
1	X-3371-591-1	DOOR ASSY	
2	X-3371-592-1	PANEL ASSY, FRONT	
* 3	3-920-361-01	SHEET (PC BOARD)	
* 4	X-3371-593-1	CASE (UP) ASSY	
5	3-920-360-01	SCREW (FRONT PANEL)	
6	3-920-391-11	DAMPER (T6)	
7	3-914-055-01	SPRING (FLOAT), TENSION	
8	1-769-248-11	CORD (WITH CONNECTOR)	
9	3-920-359-01	SCREW (COVER)	
10	3-919-535-01	COVER (DAMPER)	
11	3-919-534-01	LEVER (COIN L)	

Ref. No.	Part No.	Description	Remark
* 12	X-3369-670-1	CASE (MD) ASSY	
* 13	X-3369-483-1	ARM (SPRING L) ASSY	
* 14	X-3369-484-1	ARM (SPRING R) ASSY	
15	3-919-546-01	LEVER (COIN R)	
16	3-919-535-11	COVER (DAMPER)	
17	3-913-406-01	SCREW (GROUND)	
* 18	1-660-607-11	JACK BOARD	
* 19	3-920-312-01	BRACKET (CHASSIS 2)	
* 20	X-3371-594-1	CASE (DOWN) ASSY	
21	X-3370-355-1	MAGAZIN (SET) ASSY (A)	

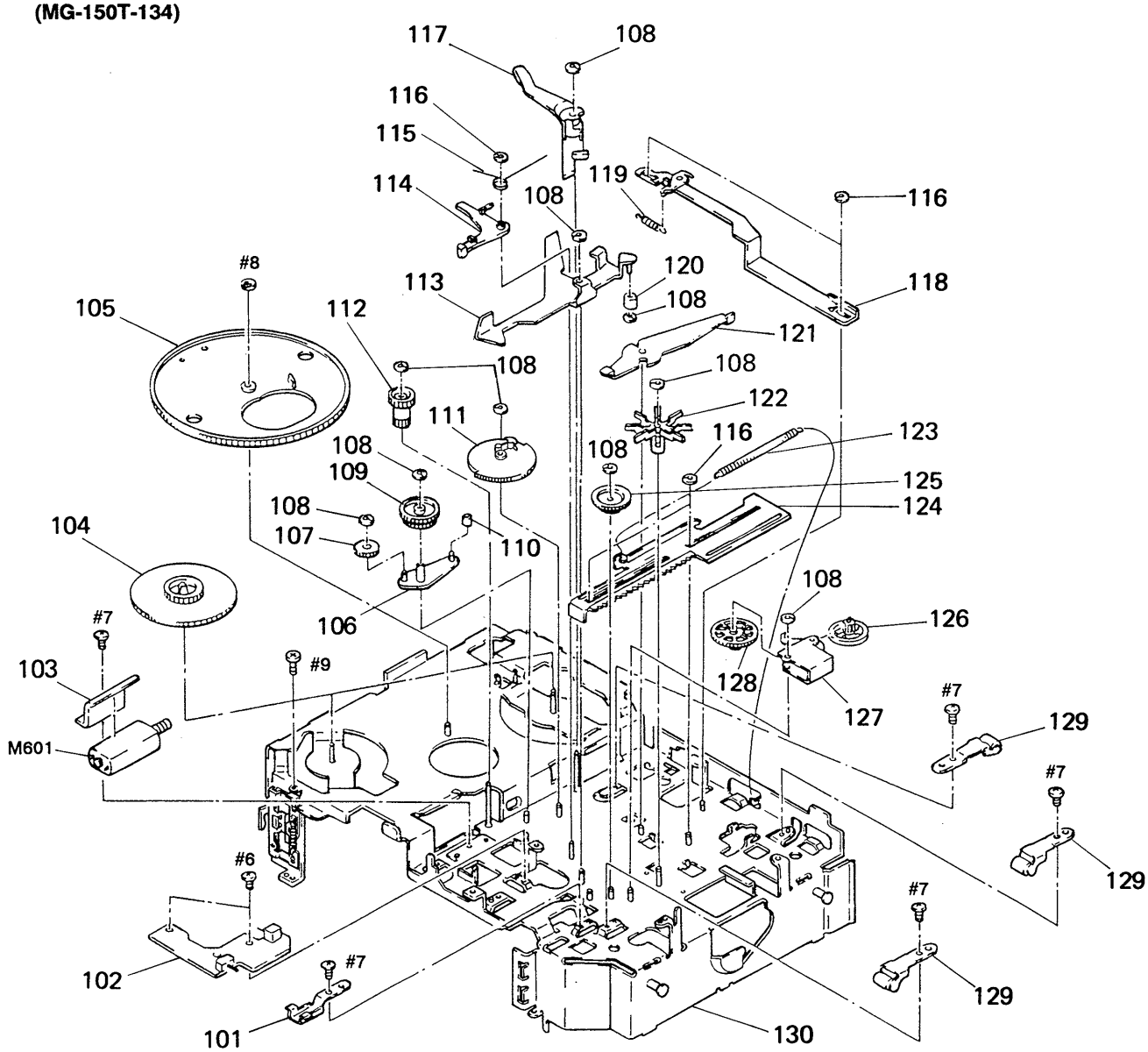
(2) MECHANISM DECK SECTION-1 (MG-150T-134)



Ref. No.	Part No.	Description	Remark
51	3-919-687-01	ESCUTCHEON	
52	3-920-362-01	SCREW (ESCUTCHEON)	
53	3-919-688-01	BUTTON (EJ)	
54	3-913-970-01	GUIDE (MAGAZINE)	
55	3-914-031-01	DETENT (EL)	
56	3-914-083-01	SPRING (LOCK FB), TENSION	
57	X-3368-458-2	ARM (LOCK FB) ASSY	
58	3-914-030-01	SHAFT (MB)	
59	3-914-029-01	ROLLER (MB)	

Ref. No.	Part No.	Description	Remark
60	1-654-840-11	EHS FLEXIBLE BOARD	
* 61	X-3371-576-1	CHASSIS (DOWN) ASSY	
62	3-921-391-01	SPRING (LINEAR), TENSION	
63	1-655-250-11	MAGAZINE FLEXIBLE BOARD	
64	1-655-251-11	JACK FLEXIBLE BOARD	
* 65	A-3309-079-A	MAIN BOARD, COMPLETE	
66	3-914-072-01	RETAINER (MAGAZINE)	
RV601	1-223-817-11	RES, VAR, SLIDE 10K (ELEVATOR)	

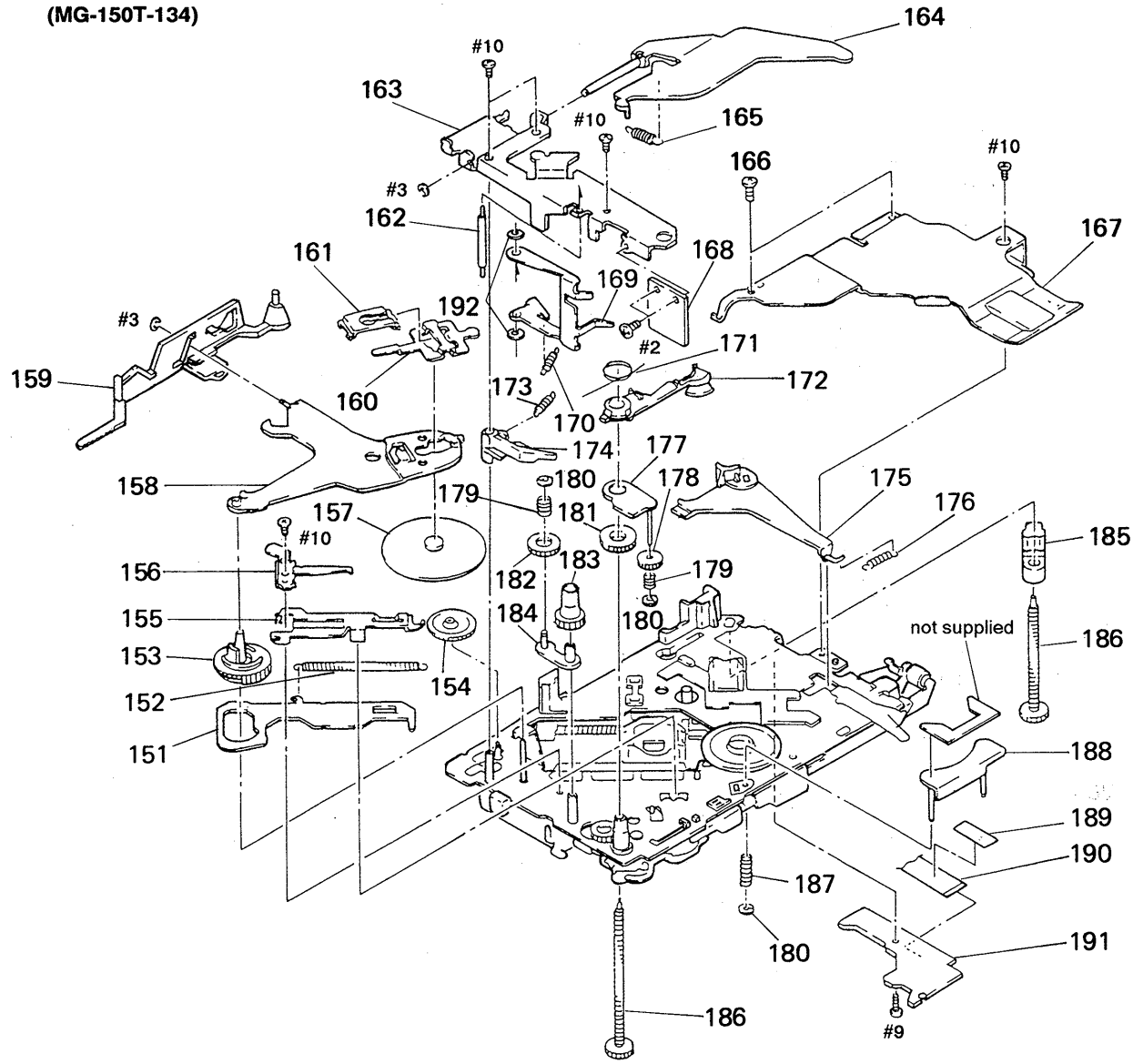
(3) MECHANISM DECK SECTION-2 (MG-150T-134)



Ref. No.	Part No.	Description	Remark
101	3-914-069-01	DETENT (SHAFT MS)	
* 102	1-654-844-11	MAGAZINE BOARD	
103	3-914-026-01	DETENT (MOTOR E)	
104	3-914-013-01	GEAR (EL2)	
105	3-914-020-01	GEAR (EL1)	
106	X-3368-452-1	ARM (SELECTION E) ASSY	
107	3-913-988-01	GEAR (IDLER E)	
108	3-573-936-00	STOPPER, REEL	
109	3-913-996-01	GEAR (SDE)	
110	3-913-987-01	ROLLER (SELECTION E)	
111	3-913-989-01	GEAR (EJ), CAM	
112	3-913-997-01	GEAR (SELECTION EL)	
113	X-3368-451-1	ARM (M LOCK) ASSY	
114	3-913-998-01	ARM (SWP)	
115	3-913-999-01	SPRING (TRIGGER E)	
116	3-914-077-01	RING (A), RETAINING	

Ref. No.	Part No.	Description	Remark
117	3-914-022-01	ARM (TRIGGER E)	
118	X-3368-456-2	LEVER (RELEASE E) ASSY	
119	3-914-028-01	SPRING (LEMITER), TENSION	
120	3-913-982-01	ROLLER (ARM M LOCK)	
121	3-913-971-01	ARM (JOINT E)	
122	3-933-419-01	FAN (T)	
123	3-914-027-01	SPRING (EJ), TENSION	
124	3-913-972-01	LEVER (EJ)	
125	3-933-417-01	GEAR (EJAT)	
126	X-3371-717-1	GEAR (IDLER FT) ASSY	
127	3-933-420-01	ARM (EJBT)	
128	3-933-418-01	GEAR (EJBT)	
129	X-3368-454-1	DETEND (M ROLLER A) ASSY	
* 130	X-3371-575-1	CHASSIS (UP) ASSY	
M601	A-3291-196-A	MOTOR ASSY, DRIVING (ELEVATOR)	

(4) MECHANISM DECK SECTION-3
(MG-150T-134)

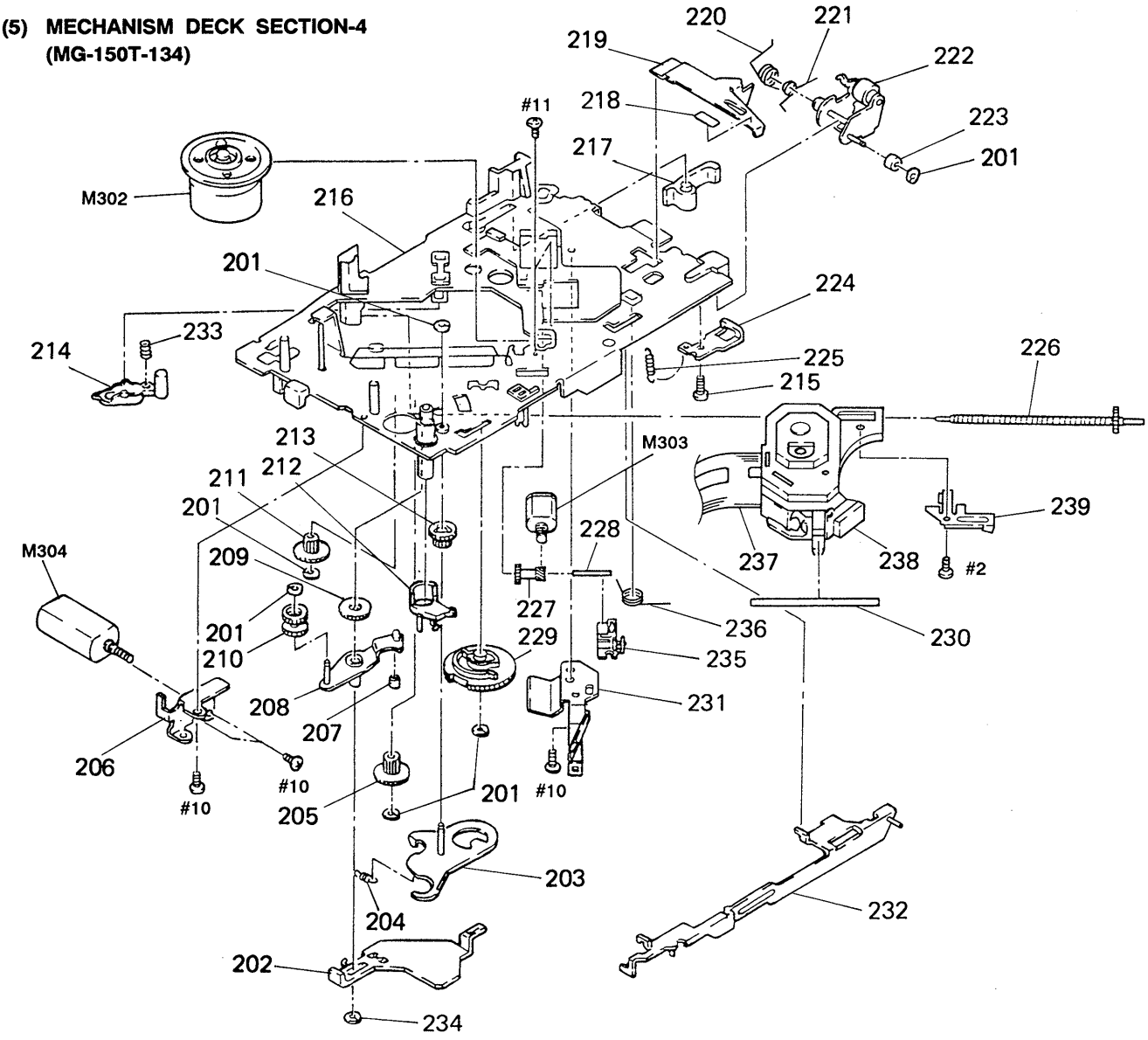


Ref. No.	Part No.	Description	Remark
151	3-914-078-02	LEVER (DISC RETAINER)	
152	3-914-099-02	SPRING (DISC), TENSION COIL	
153	X-3368-445-1	GEAR (C) ASSY, CAM	
154	3-914-113-01	GEAR (FL DRIVING A)	
155	3-914-084-03	ARM (DISC RETAINER)	
156	3-914-085-01	DETENT	
157	3-914-109-01	PLATE, CHUCK	
158	X-3368-448-1	ARM (CHUCKING) ASSY	
159	3-914-112-01	LEVER (T PUSH)	
160	3-914-111-01	RETAINER (C THRUST)	
161	3-914-110-01	SPRING (C.PLATE)	
* 162	3-913-914-01	SHAFT (T RELEASE)	
* 163	3-913-918-01	RETAINER (P)	
* 164	X-3368-449-1	RETAINER (C) ASSY	
165	3-913-919-01	SPRING (C), TENSION	
166	2-477-166-21	SCREW (H TYPE), TAPPING	
167	X-3370-069-1	GUIDE (TRAY) ASSY	
* 168	1-654-845-11	SWITCH BOARD	
169	3-913-921-01	ARM (T RELEASE)	
170	3-913-922-01	SPRING (T RELEASE), TENSION	
171	3-914-118-01	SPRING (D HOLD)	

Ref. No.	Part No.	Description	Remark
172	3-914-117-03	ARM (D HOLD)	
173	3-914-116-01	SPRING (R), TENSION	
174	3-914-115-01	PLATE (D HOLD), RELEASE	
175	3-913-923-01	NUT (M2)	
176	3-932-811-01	SPRING (NUT), TENSION	
177	X-3368-447-2	ARM (T DRIVING GEAR) ASSY	
178	3-914-098-01	GEAR (TDFP)	
179	3-914-093-01	SPRING (F), COMPRESSION	
180	3-914-077-01	RING (A), RETAINING	
181	3-914-097-01	GEAR (TDAP)	
182	3-914-092-01	GEAR (CDFP)	
183	3-914-091-01	GEAR (CDAP)	
184	X-3368-446-1	ARM (C DRIVING GEAR) ASSY	
185	3-913-925-01	NUT (M3)	
186	X-3369-627-1	SCREW (EL) ASSY, FEED	
187	3-914-076-01	SPRING (DISC), COMPRESSION	
* 188	X-3368-444-1	RETAINER (DISC) ASSY	
189	9-911-844-XX	CUSHION, BATTERY	
190	1-653-991-11	SENSOR FLEXIBLE BOARD	
* 191	1-654-843-11	SENSOR BOARD	
192	3-573-936-00	STOPPER, REEL	

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

(5) MECHANISM DECK SECTION-4 (MG-150T-134)



Ref. No.	Part No.	Description	Remark
201	3-573-936-00	STOPPER, REEL	
202	3-914-056-01	LEVER (SWE)	
* 203	X-3368-442-1	ARM (SAFETY) ASSY	
204	3-914-059-01	SPRING (ASH), TENSION	
205	3-914-057-01	GEAR (DRIVING B)	
* 206	3-914-119-01	BRACKET (CM)	
207	3-914-019-01	ROLLER (C/T SELECTION)	
208	X-3368-441-1	ARM (C/T SELECTION) ASSY	
209	3-935-368-01	GEAR (CTDP2)	
210	3-914-032-01	GEAR (CTAP)	
211	3-914-033-01	GEAR (DRIVING A)	
212	3-914-035-01	ARM (SAFE CHANGE)	
213	3-914-014-01	GEAR (SDP)	
214	3-919-689-01	ARM (DISC UP)	
215	2-477-166-21	SCREW (H TYPE), TAPPING	
* 216	X-3371-612-1	OUTSERT (OP) ASSY	
217	3-914-060-01	ARM (SWC)	
218	3-922-208-01	SPACER (DH)	
219	3-922-204-01	DETENT (DH)	
220	3-914-070-01	SPRING (LIMITER FLP)	
221	3-914-049-01	SPRING (FLP)	

Ref. No.	Part No.	Description	Remark
222	X-3368-443-1	ARM (FLP) ASSY	
223	3-914-071-01	ROLLER (SHAFT FLKP)	
224	3-914-058-02	RETAINER (FLP)	
225	3-922-206-02	SPRING (DH), TENSION COIL	
226	X-3371-614-1	SCREW (SL2) ASSY, FEED	
227	3-913-937-01	GEAR (SLB)	
* 228	3-913-938-01	SHAFT (GEAR SLB)	
229	3-914-034-01	GEAR (CTP), CAM	
* 230	3-932-816-01	SHAFT (SL GUIDE 2)	
231	3-932-814-01	SPRING (MBS2), RETAINER	
* 232	X-3368-440-1	LEVER (FLP) ASSY	
233	3-914-093-01	SPRING (F), COMPRESSION	
234	3-931-449-01	WASHER (SWE)	
* 235	3-932-813-01	BRACKET (SL2)	
236	3-932-810-01	SPRING (LEVER FLT)	
237	1-659-977-11	OP FLEXIBLE BOARD	
⚠238	8-848-402-02	OPTICAL PICK-UP KSS-520A/J-RP	
239	3-932-817-01	SPRING (OP2), FEED	
M302	A-3291-605-A	MOTOR ASSY, SPINDLE	
M303	A-3291-040-A	MOTOR ASSY, SLED	
M304	A-3291-196-A	MOTOR ASSY, DRIVING (CHUCKING)	

SECTION 8
ELECTRICAL PARTS LIST

SEE ADDITIONAL INFORMATION

EHS FLEXIBLE | **JACK** | **MAGAZINE** | **MAIN**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description		Remark
	1-654-840-11	EHS FLEXIBLE BOARD		
		**********		
		< DIODE >		
D601	8-719-945-59	DIODE DSA3A4 (8cm DISC DETECT)		
		< VARIABLE RESISTOR >		
RV601	1-223-817-11	RES, VAR, SLIDE 10K		
**********				
*	1-660-607-11	JACK BOARD		
		**********		
		< CAPACITOR >		
C902	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C903	1-163-009-11	CERAMIC CHIP	0.001uF 10%	50V
		< CONNECTOR >		
CNJ901	1-770-350-21	CONNECTOR, FPC 13P		
* CNP901	1-566-004-11	PIN, CONNECTOR (PC BOARD) 7P		
* CNP902	1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P		
		< FERRITE BEAD >		
FB901	1-500-121-21	BEAD, FERRITE (CHIP)		
FB902	1-500-121-21	BEAD, FERRITE (CHIP)		
FB903	1-500-121-21	BEAD, FERRITE (CHIP)		
		< IC LINC >		
IC901	1-532-686-21	LINC, IC		
**********				
*	1-654-844-11	MAGAZINE BOARD		
		**********		
		< CONNECTOR >		
CNJ501	1-770-347-21	CONNECTOR, FPC 6P		
* CNP501	1-695-320-21	PIN, CONNECTOR (1.5MM) (SMD) 2P		

Ref.No.	Part No.	Description		Remark
		< TRANSISTOR >		
Q501	8-729-018-00	PHOTO TRANSISTOR ST-308 (8cm DISC DETECT)		
		< SWITCH >		
SW501	1-571-754-31	SWITCH, PUSH (1 KEY) (MAGAZINE IN/OUT DETECT)		
SW502	1-571-754-31	SWITCH, PUSH (1 KEY) (MAGAZINE EJECT END DETECT)		
**********				
*	A-3309-079-A	MAIN BOARD, COMPLETE		
		**********		
		< CAPACITOR >		
C10	1-164-360-11	CERAMIC CHIP	0.1uF	16V
C11	1-126-177-11	ELECT	100uF 20%	10V
C12	1-126-177-11	ELECT	100uF 20%	10V
C15	1-164-227-11	CERAMIC CHIP	0.022uF 10%	25V
C16	1-165-176-11	CERAMIC CHIP	0.047uF 10%	16V
C17	1-162-957-11	CERAMIC CHIP	220PF 5%	50V
C18	1-107-826-11	CERAMIC CHIP	0.1uF 10%	16V
C19	1-164-360-11	CERAMIC CHIP	0.1uF	16V
C20	1-126-177-11	ELECT	100uF 20%	10V
C21	1-162-966-11	CERAMIC CHIP	0.0022uF 10%	50V
C22	1-107-823-11	CERAMIC CHIP	0.47uF 10%	16V
C23	1-107-826-11	CERAMIC CHIP	0.1uF 10%	16V
C24	1-107-826-11	CERAMIC CHIP	0.1uF 10%	16V
C25	1-126-163-11	ELECT	4.7uF 20%	50V
C26	1-107-826-11	CERAMIC CHIP	0.1uF 10%	16V
C27	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V
C28	1-109-996-11	CERAMIC CHIP	1uF 10%	16V
C29	1-126-157-11	ELECT	10uF 20%	16V
C30	1-107-826-11	CERAMIC CHIP	0.1uF 10%	16V
C31	1-164-373-11	CERAMIC CHIP	0.033uF	25V
C32	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V
C33	1-164-373-11	CERAMIC CHIP	0.033uF	25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF 10%	25V
C36	1-162-915-11	CERAMIC CHIP	10PF 0.5PF	50V
C37	1-126-154-11	ELECT	47uF 20%	6.3V

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
C38	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C39	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C40	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C41	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C42	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C43	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C44	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C45	1-126-154-11	ELECT	47uF	20%	6.3V
C46	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C48	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C49	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C50	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C51	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C52	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C53	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C54	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C55	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C56	1-124-589-11	ELECT	47uF	20%	16V
C57	1-124-589-11	ELECT	47uF	20%	16V
C58	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C60	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C61	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C62	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C63	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C64	1-163-029-11	CERAMIC CHIP	0.0047uF		50V
C65	1-164-346-11	CERAMIC CHIP	1uF		16V
C66	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C67	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C68	1-125-701-11	CAPACITOR	0.047uF		5.5V
C69	1-124-589-11	ELECT	47uF	20%	16V
C70	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C71	1-124-589-11	ELECT	47uF	20%	16V
C72	1-124-589-11	ELECT	47uF	20%	16V
C74	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C75	1-126-942-61	ELECT	1000uF	20%	16V
C76	1-124-589-11	ELECT	47uF	20%	16V
C77	1-124-589-11	ELECT	47uF	20%	16V
C79	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C80	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C81	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C90	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C91	1-126-154-11	ELECT	47uF	20%	6.3V
C92	1-126-157-11	ELECT	10uF	20%	16V
C93	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V
C94	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C96	1-126-154-11	ELECT	47uF	20%	6.3V
C97	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C98	1-126-154-11	ELECT	47uF	20%	6.3V
C99	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C101	1-126-157-11	ELECT	10uF	20%	16V
C111	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C201	1-126-157-11	ELECT	10uF	20%	16V
C222	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C303	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C401	1-163-091-00	CERAMIC CHIP	8PF		50V
		< CONNECTOR >			
CNJ11	1-764-438-21	CONNECTOR, FPC 17P			
CNJ12	1-770-349-21	CONNECTOR, FPC 12P			
CNJ13	1-770-347-21	CONNECTOR, FPC 6P			
CNJ14	1-770-346-21	CONNECTOR, FPC 4P			
CNJ15	1-770-350-21	CONNECTOR, FPC 13P			
		< DIODE >			
D12	8-719-210-33	DIODE	EC10DS2		
D13	8-719-210-33	DIODE	EC10DS2		
D14	8-719-801-78	DIODE	1SS184		
D15	8-719-106-08	DIODE	RD6.2M-B2		
D16	8-719-105-99	DIODE	RD6.2M-B1		
D17	8-719-038-48	DIODE	1SS319(TE85R)		
D18	8-719-801-78	DIODE	1SS184		
D19	8-719-105-99	DIODE	RD6.2M-B1		
D20	8-719-975-40	DIODE	RB411D		
D21	8-719-105-99	DIODE	RD6.2M-B1		
D22	8-719-975-40	DIODE	RB411D		
D23	8-719-975-40	DIODE	RB411D		
D50	8-719-801-78	DIODE	1SS184		
		< FERRITE BEAD >			
FB11	1-500-234-11	BEAD, FERRITE (CHIP)			
FB21	1-414-229-11	INDUCTOR, FERRITE BEAD			
FB22	1-414-229-11	INDUCTOR, FERRITE BEAD			
		< IC >			
IC11	8-752-069-56	IC	CXA1782BQ		
IC12	8-752-372-94	IC	CXD2507AQ		
IC13	8-759-071-79	IC	BA6297AFP		
IC14	8-752-870-85	IC	CXP84124-036Q		
IC15	8-759-363-60	IC	NM24C16EM8X		
IC16	8-759-327-78	IC	TC9404FN-EL		
IC17	8-759-040-83	IC	BA6287F		
IC18	8-759-040-83	IC	BA6287F		
IC19	8-759-284-87	IC	MM1284XFFE		
IC20	8-759-097-36	IC	RH5VA40AA		
IC21	8-759-324-40	IC	KIA7805PI		
IC22	8-759-054-12	IC	PQ09RA1		

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q11	8-729-141-48	TRANSISTOR	2SB624-BV345		
Q14	8-729-904-60	TRANSISTOR	DTB113ZK		
Q15	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q16	8-729-424-12	TRANSISTOR	UN2112		
Q17	8-729-424-59	TRANSISTOR	UN2212		
Q18	8-729-807-34	TRANSISTOR	2SB1123-S		
Q19	8-729-424-12	TRANSISTOR	UN2112		
Q20	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q21	8-729-822-05	TRANSISTOR	2SD1622-ST-TD		
Q22	8-729-424-59	TRANSISTOR	UN2212		
Q23	8-729-016-83	TRANSISTOR	2SB1446		
Q91	8-729-424-59	TRANSISTOR	UN2212		
Q92	8-729-424-08	TRANSISTOR	UN2111		
Q101	8-729-015-39	TRANSISTOR	DTC323TK		
Q201	8-729-015-39	TRANSISTOR	DTC323TK		
		< RESISTOR >			
R1	1-216-045-00	METAL CHIP	680	5% 1/10W	
R10	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R11	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R12	1-216-846-11	METAL CHIP	120K	5% 1/16W	
R14	1-216-846-11	METAL CHIP	120K	5% 1/16W	
R15	1-216-831-11	METAL CHIP	6.8K	5% 1/16W	
R16	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R17	1-216-857-11	METAL CHIP	1M	5% 1/16W	
R18	1-216-857-11	METAL CHIP	1M	5% 1/16W	
R21	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R22	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R23	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R24	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R25	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R26	1-216-855-11	METAL CHIP	680K	5% 1/16W	
R27	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R28	1-218-273-11	METAL GLAZE	510K	5% 1/16W	
R29	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R30	1-216-846-11	METAL CHIP	120K	5% 1/16W	
R31	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R32	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R33	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R34	1-216-849-11	METAL CHIP	220K	5% 1/16W	
R35	1-216-835-11	METAL CHIP	15K	5% 1/16W	
R36	1-216-836-11	METAL CHIP	18K	5% 1/16W	
R37	1-216-864-11	METAL CHIP	0	5% 1/16W	
R38	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R39	1-216-158-00	METAL GLAZE	22	5% 1/8W	
R40	1-216-827-11	METAL CHIP	3.3K	5% 1/16W	
R41	1-216-827-11	METAL CHIP	3.3K	5% 1/16W	
R42	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R43	1-216-856-11	METAL CHIP	820K	5% 1/16W	
R44	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R45	1-216-849-11	METAL CHIP	220K	5% 1/16W	
R46	1-216-814-11	METAL CHIP	270	5% 1/16W	
R47	1-216-814-11	METAL CHIP	270	5% 1/16W	
R48	1-216-814-11	METAL CHIP	270	5% 1/16W	
R49	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R50	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R51	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R52	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R53	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R54	1-216-832-11	METAL CHIP	8.2K	5% 1/16W	
R55	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R56	1-216-843-11	METAL CHIP	68K	5% 1/16W	
R57	1-216-994-11	METAL GLAZE	13K	5% 1/16W	
R58	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R59	1-216-843-11	METAL CHIP	68K	5% 1/16W	
R60	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R61	1-216-843-11	METAL CHIP	68K	5% 1/16W	
R62	1-216-829-11	METAL CHIP	4.7K	5% 1/16W	
R63	1-216-841-11	METAL CHIP	47K	5% 1/16W	
R64	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R65	1-216-841-11	METAL CHIP	47K	5% 1/16W	
R66	1-216-841-11	METAL CHIP	47K	5% 1/16W	
R67	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R69	1-216-089-00	METAL GLAZE	47K	5% 1/10W	
R70	1-216-033-00	METAL CHIP	220	5% 1/10W	
R71	1-216-033-00	METAL CHIP	220	5% 1/10W	
R72	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R73	1-216-045-00	METAL CHIP	680	5% 1/10W	
R74	1-216-089-00	METAL GLAZE	47K	5% 1/10W	
R75	1-216-097-00	METAL GLAZE	100K	5% 1/10W	
R76	1-216-689-11	METAL CHIP	39K	0.5% 1/10W	
R77	1-216-089-00	METAL GLAZE	47K	5% 1/10W	
R78	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R79	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R80	1-216-089-00	METAL GLAZE	47K	5% 1/10W	
R81	1-216-089-00	METAL GLAZE	47K	5% 1/10W	
R82	1-216-049-00	METAL GLAZE	1K	5% 1/10W	
R83	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R91	1-216-001-00	METAL CHIP	10	5% 1/10W	
R92	1-216-001-00	METAL CHIP	10	5% 1/10W	
R93	1-216-001-00	METAL CHIP	10	5% 1/10W	
R99	1-216-841-11	METAL CHIP	47K	5% 1/16W	
R101	1-216-813-11	METAL CHIP	220	5% 1/16W	
R102	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R111	1-216-842-11	METAL CHIP	56K	5% 1/16W	
R201	1-216-813-11	METAL CHIP	220	5% 1/16W	

MAIN **SENSOR** **SWITCH**

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
R202	1-216-845-11	METAL CHIP	100K	5%	1/16W
R222	1-216-847-11	METAL CHIP	150K	5%	1/16W
R301	1-216-833-11	METAL CHIP	10K	5%	1/16W
R303	1-216-864-11	METAL CHIP	0	5%	1/16W
R305	1-216-833-11	METAL CHIP	10K	5%	1/16W
R306	1-216-833-11	METAL CHIP	10K	5%	1/16W
R307	1-216-833-11	METAL CHIP	10K	5%	1/16W
R308	1-216-833-11	METAL CHIP	10K	5%	1/16W
R309	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R310	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R311	1-216-833-11	METAL CHIP	10K	5%	1/16W
R401	1-216-864-11	METAL CHIP	0	5%	1/16W
R402	1-216-864-11	METAL CHIP	0	5%	1/16W
R403	1-216-833-11	METAL CHIP	10K	5%	1/16W
R404	1-216-864-11	METAL CHIP	2.2K	5%	1/16W
R405	1-216-864-11	METAL CHIP	0	5%	1/16W
R406	1-216-864-11	METAL CHIP	0	5%	1/16W
		< VARIABLE RESISTOR >			
RV10	1-241-228-21	RES, ADJ, METAL GRAZE 220K			
RV11	1-241-225-11	RES, ADJ, METAL GRAZE 22K			
RV12	1-241-225-11	RES, ADJ, METAL GRAZE 22K			
RV13	1-241-225-11	RES, ADJ, METAL GRAZE 22K			
		< SWITCH >			
SW11	1-762-526-21	SWITCH (⏏)			
		< VIBRATOR >			
X11	1-579-125-11	VIBRATOR, CERAMIC (8.0MHz)			
X12	1-760-307-11	VIBRATOR, CERAMIC (16.9344MHz)			
**********					
*	1-654-843-11	SENSOR BOARD			
		**********			
		< CONNECTOR >			
CNJ301	1-770-349-21	CONNECTOR, FPC 12P			
* CNP301	1-580-056-21	PIN, CONNECTOR 3P			
CNP302	1-580-055-21	PIN, CONNECTOR 2P			
CNP303	1-580-055-21	PIN, CONNECTOR 2P			
CNP304	1-580-055-21	PIN, CONNECTOR 2P			
		< SWITCH >			
SW301	1-571-754-31	SWITCH, PUSH (1 KEY) (LIMIT DETECT)			
SW302	1-571-754-31	SWITCH, PUSH (1 KEY) (CHUCKING MOVEMENT END DETECT)			
**********					

Ref. No.	Part No.	Description	Remark
*	1-654-845-11	SWITCH BOARD	
		**********	
		< SWITCH >	
SW401	1-570-953-11	SWITCH, PUSH (1 KEY) (DISC IN/OUT DETECT)	
SW402	1-570-953-11	SWITCH, PUSH (1 KEY) (TRAY MOVEMENT END DETECT)	
**********			
		MISCELLANEOUS	
		**********	
8	1-769-248-11	CORD (WITH CONNECTOR)	
63	1-655-250-11	MAGAZINE FLEXIBLE BOARD	
64	1-655-251-11	JACK FLEXIBLE BOARD	
190	1-653-991-11	SENSOR FLEXIBLE BOARD	
237	1-659-977-11	OP FLEXIBLE BOARD	
⚠238	8-848-402-02	OPTICAL PICK-UP KSS-520A/J-RP	
M302	A-3291-605-A	MOTOR ASSY, SPINDLE	
M303	A-3291-040-A	MOTOR ASSY, SLED	
M304	A-3291-196-A	MOTOR ASSY, DRIVING (CHUCKING)	
M601	A-3291-196-A	MOTOR ASSY, DRIVING (ELEVATOR)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-781-09	SCREW +PTT 2X4 (S)	
#2	7-621-772-08	SCREW +B 2X3	
#3	7-624-101-04	STOP RING 1.2 (E TYPE)	
#4	7-624-102-04	STOP RING 1.5, TYPE -E	
#5	7-627-852-08	SCREW, PRECISION +P 1.7X2.5	
#6	7-621-255-25	SCREW +PTT 2X4 (S)	
#7	7-621-255-10	SCREW +PTT 2X3 (S)	
#8	7-624-104-04	STOP RING 2.0, TYPE -E	
#9	7-621-772-38	SCREW +B 2X6	
#10	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#11	7-627-552-37	SCREW, PRECISION +P 1.7X3	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-543-827-31	CLAMP, SLEEVE FERRITE (US)	
	1-590-519-21	CORD (WITH CONNECTOR) (POWER)	
	1-765-427-11	CORD, CONNECTION (RCA PIN)	
	3-810-936-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (US, Canadian, E)	

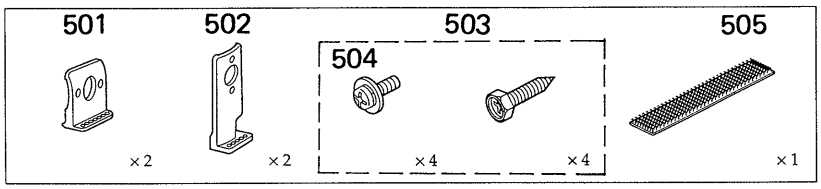
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
	3-810-936-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN, DUTCH)	(AEP, UK)
	3-810-936-31	MANUAL, INSTRUCTION (SPANISH, SWEDISH, PORTUGUESE, DANISH, FINNISH)	(AEP, UK)
	X-3370-355-1	MAGAZIN (SET) ASSY (A)	

****

MOUNTING HARDWARE
****

* 501	3-919-537-01	BRACKET (HORIZONTAL)	
* 502	3-919-541-01	BRACKET (VERTICAL)	
503	X-3364-512-1	SCREW ASSY	
504	7-682-662-09	SCREW +PSW 4X10	
505	3-920-869-01	TAPE (MALE)	



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SONY®
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Change of Main Board and Jack Board

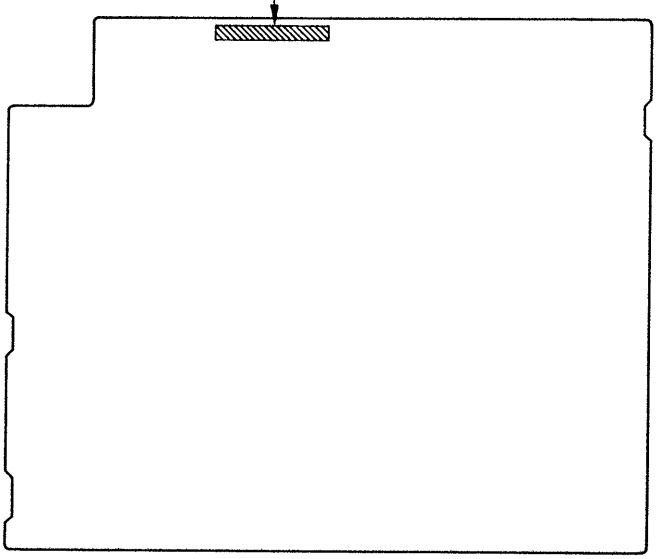
(ENG-96011)

Main board and Jack Board have been modified in the middle of production.
This supplement-1 contains the printed wiring boards, the schematic diagram and the electrical parts list for the new type.

- **New/Former Discrimination**

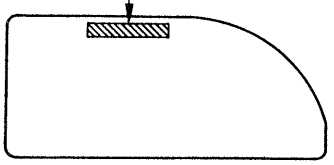
【MAIN BOARD】 (Component Side)

Former: 1-660-608-11
New: 1-660-608-12



【JACK BOARD】 (Component Side)

Former: 1-660-607-11
New: 1-660-607-12



PRINTED WIRING BOARDS

- **Semiconductor Location**

Ref. No.	Location
D12	D-8
D13	D-8
D14	E-7
D15	E-7
D16	D-9
D17	F-9
D18	F-10
D19	F-7
D20	F-7
D21	F-7
D22	F-7
D23	F-6
D50	F-6
IC11	I-4
IC12	J-7
IC13	F-2
IC14	G-6
IC15	F-5
IC16	J-9
IC17	E-5
IC18	G-4
IC19	E-6
IC20	F-9
IC21	G-11
IC22	G-12
Q11	I-2
Q14	H-3
Q15	G-8
Q16	F-5
Q17	E-3
Q18	F-3
Q19	F-8
Q20	E-8
Q21	E-9
Q22	F-10
Q23	E-11
Q91	I-8
Q92	I-8
Q101	I-8
Q201	I-9

Note:

- ○——— : parts extracted from the component side.
- ● : Through hole.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

【JACK BOARD】(COMPONENT SIDE)

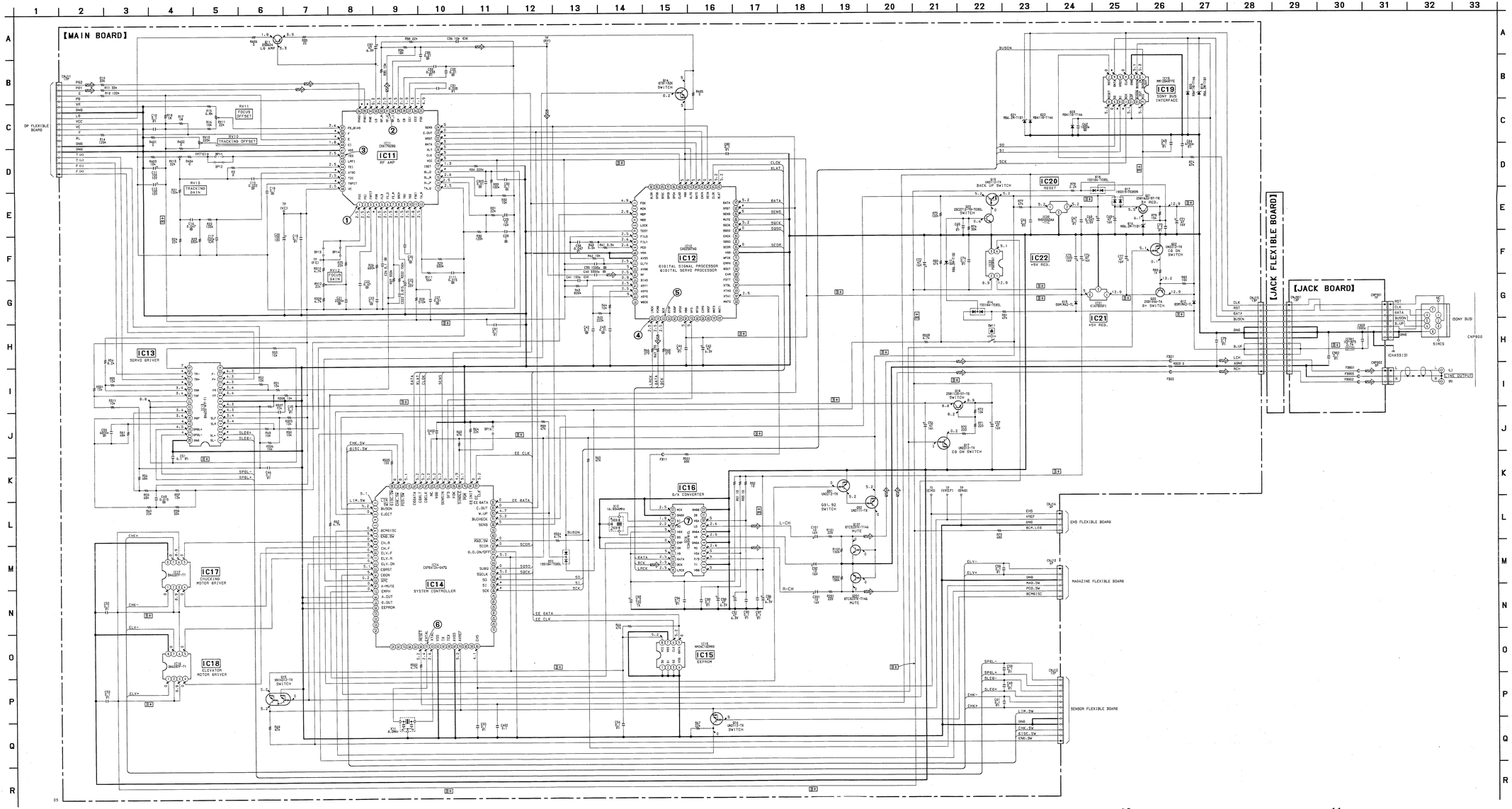
【JACK BOARD】(CONDUCTOR SIDE)

【MAIN BOARD】(COMPONENT SIDE)

【JACK FLEXIBLE BOARD】 1-655-251-11

【MAIN BOARD】(CONDUCTOR SIDE)

SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.

Note:	**Note:**
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B + Line.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  ✻ : Impossible to measure
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	1-660-607-12	JACK BOARD			
		**********			
		< CAPACITOR >			
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< JACK >			
CNJ901	1-770-350-21	CONNECTOR, FPC 13P			
		< CONNECTOR >			
* CNP901	1-566-004-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP902	1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P			
		< FERRITE BEAD >			
FB901	1-414-235-11	INDUCTOR, FERRITE BEAD			
FB902	1-414-235-11	INDUCTOR, FERRITE BEAD			
FB903	1-414-235-11	INDUCTOR, FERRITE BEAD			
		< IC >			
IC901	1-532-686-21	LINK, IC			
**********					
*	A-3309-079-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C10	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C11	1-124-584-00	ELECT	100uF	20%	10V
C12	1-124-584-00	ELECT	100uF	20%	10V
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C17	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C18	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C19	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C20	1-124-584-00	ELECT	100uF	20%	10V
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C23	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C25	1-115-865-61	ELECT	4.7uF	20%	25V
C26	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C27	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C28	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C29	1-115-864-61	ELECT	10uF	20%	16V
C30	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C31	1-164-373-11	CERAMIC CHIP	0.033uF		25V
C32	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C33	1-164-373-11	CERAMIC CHIP	0.033uF		25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C36	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C37	1-126-513-11	ELECT	47uF	20%	6.3V
C38	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C39	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C40	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C41	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C42	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C43	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C44	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C45	1-126-513-11	ELECT	47uF	20%	6.3V
C46	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C48	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C49	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C50	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C51	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C52	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C53	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C54	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C55	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C56	1-126-786-11	ELECT	47uF	20%	16V
C57	1-126-786-11	ELECT	47uF	20%	16V
C58	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C60	1-163-038-00	CERAMIC CHIP	0.1uF		25V

MAIN

Ref. No.	Part No.	Description			Remark
C61	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C62	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C63	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C64	1-163-029-11	CERAMIC CHIP	0.0047uF		50V
C65	1-164-346-11	CERAMIC CHIP	1uF		16V
C66	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C67	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C68	1-125-701-11	CAPACITOR	0.047F		5.5V
C69	1-126-786-11	ELECT	47uF	20%	16V
C70	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C71	1-126-786-11	ELECT	47uF	20%	16V
C72	1-126-786-11	ELECT	47uF	20%	16V
C74	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C75	1-115-466-11	ELECT	1000uF	20%	16V
C76	1-126-786-11	ELECT	47uF	20%	16V
C77	1-126-786-11	ELECT	47uF	20%	16V
C79	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C80	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C81	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C90	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C91	1-126-513-11	ELECT	47uF	20%	6.3V
C92	1-115-864-61	ELECT	10uF	20%	16V
C93	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V
C94	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C96	1-126-513-11	ELECT	47uF	20%	6.3V
C97	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C98	1-126-513-11	ELECT	47uF	20%	6.3V
C99	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C101	1-115-864-61	ELECT	10uF	20%	16V
C111	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C201	1-115-864-61	ELECT	10uF	20%	16V
C222	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C303	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-164-360-11	CERAMIC CHIP	0.1uF		16V

< CONNECTOR >

CNJ11	1-764-438-21	CONNECTOR, FPC 17P
CNJ12	1-770-349-21	CONNECTOR, FPC 12P
CNJ13	1-770-347-21	CONNECTOR, FPC 6P
CNJ14	1-770-346-21	CONNECTOR, FPC 4P
CNJ15	1-770-350-21	CONNECTOR, FPC 13P

< DIODE >

D12	8-719-210-33	DIODE	EC10DS2
D13	8-719-210-33	DIODE	EC10DS2
D14	8-719-801-78	DIODE	1SS184
D15	8-719-106-08	DIODE	RD6.2M-B2
D16	8-719-105-99	DIODE	RD6.2M-B1
D17	8-719-038-48	DIODE	1SS319(TE85R)
D18	8-719-801-78	DIODE	1SS184
D19	8-719-105-99	DIODE	RD6.2M-B1
D20	8-719-975-40	DIODE	RB411D
D21	8-719-105-99	DIODE	RD6.2M-B1
D22	8-719-975-40	DIODE	RB411D
D23	8-719-975-40	DIODE	RB411D
D50	8-719-801-78	DIODE	1SS184

< FERRITE BEAD >

FB11	1-500-234-11	BEAD, FERRITE (CHIP)
FB21	1-414-229-11	INDUCTOR, FERRITE BEAD
FB22	1-414-229-11	INDUCTOR, FERRITE BEAD

< IC >

IC11	8-752-069-56	IC	CXA1782BQ
IC12	8-752-372-94	IC	CXD2507AQ
IC13	8-759-071-79	IC	BA6297AFP
IC14	8-752-872-57	IC	CXP84124-047Q
IC15	8-759-363-60	IC	NM24C16EM8X
IC16	8-759-327-78	IC	TC9404FN-EL
IC17	8-759-040-83	IC	BA6287F
IC18	8-759-040-83	IC	BA6287F
IC19	8-759-284-87	IC	MM1284XFFE
IC20	8-759-097-36	IC	RH5VA40AA
IC21	8-759-324-40	IC	KIA7805PI
IC22	8-759-054-12	IC	PQ09RA1

< TRANSISTOR >

Q11	8-729-141-48	TRANSISTOR	2SB624-BV345
Q14	8-729-904-60	TRANSISTOR	DTB113ZK
Q15	8-729-020-67	TRANSISTOR	XN1A312-TX
Q16	8-729-424-12	TRANSISTOR	UN2112
Q17	8-729-424-59	TRANSISTOR	UN2212
Q18	8-729-807-34	TRANSISTOR	2SB1123-S
Q19	8-729-424-12	TRANSISTOR	UN2112
Q20	8-729-230-49	TRANSISTOR	2SC2712-YG
Q21	8-729-822-05	TRANSISTOR	2SD1622-ST-TD
Q22	8-729-424-59	TRANSISTOR	UN2212
Q23	8-729-016-83	TRANSISTOR	2SB1446
Q91	8-729-424-59	TRANSISTOR	UN2212
Q92	8-729-424-08	TRANSISTOR	UN2111
Q101	8-729-015-39	TRANSISTOR	DTC323TK
Q201	8-729-015-39	TRANSISTOR	DTC323TK

< RESISTOR >

R3	1-216-864-11	METAL CHIP	0	5%	1/16W
R10	1-216-839-11	METAL CHIP	33K	5%	1/16W
R11	1-216-839-11	METAL CHIP	33K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R12	1-216-846-11	METAL CHIP	120K	5%	1/16W
R14	1-216-846-11	METAL CHIP	120K	5%	1/16W
R15	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R16	1-216-833-11	METAL CHIP	10K	5%	1/16W
R17	1-216-857-11	METAL CHIP	1M	5%	1/16W
R18	1-216-857-11	METAL CHIP	1M	5%	1/16W
R21	1-216-845-11	METAL CHIP	100K	5%	1/16W
R22	1-216-845-11	METAL CHIP	100K	5%	1/16W
R23	1-216-851-11	METAL CHIP	330K	5%	1/16W
R24	1-216-837-11	METAL CHIP	22K	5%	1/16W
R25	1-216-837-11	METAL CHIP	22K	5%	1/16W
R26	1-216-855-11	METAL CHIP	680K	5%	1/16W
R27	1-216-851-11	METAL CHIP	330K	5%	1/16W
R28	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R29	1-216-851-11	METAL CHIP	330K	5%	1/16W
R30	1-216-846-11	METAL CHIP	120K	5%	1/16W
R31	1-216-837-11	METAL CHIP	22K	5%	1/16W
R32	1-216-833-11	METAL CHIP	10K	5%	1/16W
R33	1-216-845-11	METAL CHIP	100K	5%	1/16W
R34	1-216-849-11	METAL CHIP	220K	5%	1/16W
R35	1-216-835-11	METAL CHIP	15K	5%	1/16W
R36	1-216-836-11	METAL CHIP	18K	5%	1/16W
R38	1-216-837-11	METAL CHIP	22K	5%	1/16W
R39	1-216-158-00	METAL GLAZE	22	5%	1/8W
R40	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R41	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R42	1-216-833-11	METAL CHIP	10K	5%	1/16W
R43	1-216-856-11	METAL CHIP	820K	5%	1/16W
R44	1-216-833-11	METAL CHIP	10K	5%	1/16W
R45	1-216-849-11	METAL CHIP	220K	5%	1/16W
R46	1-216-814-11	METAL CHIP	270	5%	1/16W
R47	1-216-814-11	METAL CHIP	270	5%	1/16W
R48	1-216-814-11	METAL CHIP	270	5%	1/16W
R49	1-216-833-11	METAL CHIP	10K	5%	1/16W
R50	1-216-833-11	METAL CHIP	10K	5%	1/16W
R51	1-216-833-11	METAL CHIP	10K	5%	1/16W
R52	1-216-833-11	METAL CHIP	10K	5%	1/16W
R53	1-216-833-11	METAL CHIP	10K	5%	1/16W
R54	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R55	1-216-833-11	METAL CHIP	10K	5%	1/16W
R56	1-216-843-11	METAL CHIP	68K	5%	1/16W
R57	1-216-994-11	METAL GLAZE	13K	5%	1/16W
R58	1-216-839-11	METAL CHIP	33K	5%	1/16W
R59	1-216-843-11	METAL CHIP	68K	5%	1/16W
R60	1-216-837-11	METAL CHIP	22K	5%	1/16W
R61	1-216-843-11	METAL CHIP	68K	5%	1/16W
R62	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R63	1-216-841-11	METAL CHIP	47K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R64	1-216-837-11	METAL CHIP	22K	5%	1/16W
R65	1-216-841-11	METAL CHIP	47K	5%	1/16W
R66	1-216-841-11	METAL CHIP	47K	5%	1/16W
R67	1-216-837-11	METAL CHIP	22K	5%	1/16W
R69	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R70	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-033-00	METAL CHIP	220	5%	1/10W
R72	1-216-073-00	METAL CHIP	10K	5%	1/10W
R73	1-216-045-00	METAL CHIP	680	5%	1/10W
R74	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R75	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R76	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R77	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R78	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R79	1-216-077-00	METAL CHIP	15K	5%	1/10W
R80	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R81	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R82	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R83	1-216-073-00	METAL CHIP	10K	5%	1/10W
R91	1-216-001-00	METAL CHIP	10	5%	1/10W
R92	1-216-001-00	METAL CHIP	10	5%	1/10W
R93	1-216-001-00	METAL CHIP	10	5%	1/10W
R99	1-216-841-11	METAL CHIP	47K	5%	1/16W
R101	1-216-813-11	METAL CHIP	220	5%	1/16W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R111	1-216-842-11	METAL CHIP	56K	5%	1/16W
R201	1-216-813-11	METAL CHIP	220	5%	1/16W
R202	1-216-845-11	METAL CHIP	100K	5%	1/16W
R222	1-216-847-11	METAL CHIP	150K	5%	1/16W
R301	1-216-833-11	METAL CHIP	10K	5%	1/16W
R303	1-216-864-11	METAL CHIP	0	5%	1/16W
R305	1-216-833-11	METAL CHIP	10K	5%	1/16W
R306	1-216-833-11	METAL CHIP	10K	5%	1/16W
R307	1-216-833-11	METAL CHIP	10K	5%	1/16W
R308	1-216-833-11	METAL CHIP	10K	5%	1/16W
R309	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R310	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R311	1-216-833-11	METAL CHIP	10K	5%	1/16W
R401	1-216-864-11	METAL CHIP	0	5%	1/16W
R402	1-216-864-11	METAL CHIP	0	5%	1/16W
R403	1-216-833-11	METAL CHIP	10K	5%	1/16W
R404	1-216-864-11	METAL CHIP	0	5%	1/16W
R405	1-216-864-11	METAL CHIP	0	5%	1/16W
R406	1-216-864-11	METAL CHIP	0	5%	1/16W
R501	1-216-819-11	METAL CHIP	680	5%	1/16W
R502	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R503	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R504	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R505	1-216-809-11	METAL CHIP	100	5%	1/16W

MAIN

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV10	1-241-228-21	RES, ADJ, METAL GRAZE 220K	
RV11	1-241-225-11	RES, ADJ, METAL GRAZE 22K	
RV12	1-241-225-11	RES, ADJ, METAL GRAZE 22K	
RV13	1-241-225-11	RES, ADJ, METAL GRAZE 22K	
		< SWITCH >	
SW11	1-762-526-11	SWITCH (⏏)	
		< VIBRATOR >	
X11	1-579-125-11	VIBRATOR, CERAMIC (8.0MHz)	
X12	1-760-307-11	VIBRATOR, CERAMIC (16.9344MHz)	

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9-923-461-81

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Personal & Mobile Communication Company

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CDX-T62

SONY

SERVICE MANUAL

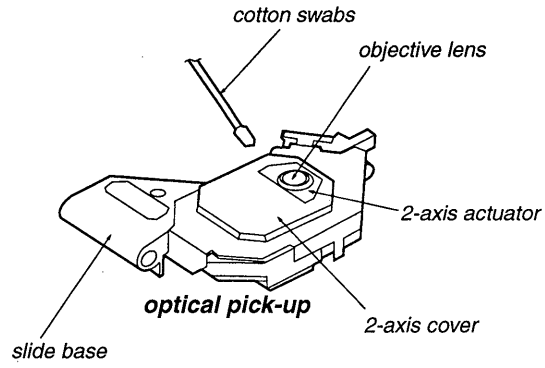
US Model
Canadian Model
AEP Model
UK Model
E Model

SUPPLEMENT-2

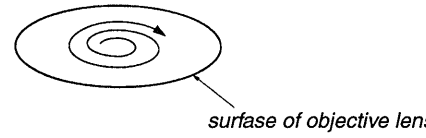
File this supplement with the service manual.

Subject : Notes on Cleaning The Objective Lens

NOTES ON CLEANING THE OBJECTIVE LENS



Apply CD lens cleaner B-4 (Part No.: J-2501-000-A) to cotton swabs (narrow type) (Part No.: J-2501-023-A) to be lightly wet. Use a force (about 5 g (0.18 oz)) to make the objective lens in contact with the bottom lightly, and clean the lens by spirals as following below.
Replace the cotton swab and repeat this cleaning two or three times.



Notes:
Do not force to push the objective lens. Otherwise, the plate spring supporting the objective lens will be bent, causing a deteriorated RF waveform.
Never touch anything other than the objective lens. Otherwise, a significant deterioration occurs in the RF waveform.

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CORRECTION-1

Correct your service manual as shown below.

☛ : **Indicates corrected portion.**

Page	INCORRECT				CORRECT			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
37	D601	8-719-945-59	DIODE DSA3A4 (8cm DISC DET)		D601	8-719-029-26	LED EL308 (8cm DISC DETECT)	

(SPM-00027)

9-923-461-91

Sony Corporation
Audio Entertainment Group

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